

Ex. 5 - Deliberative

Checklist for Yearly SDWA R3 State Lab Cert Program Reviews:

- (2)* X 1. Completed Questionnaire including the following attachments:
- long list* X 2. List of all Microbiology laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection (including the total number of these labs (# in-State, # Out-of-State).
- med* X 3. List of all Chemistry laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection (including the total number of these labs (# in-State, # Out-of-State).
- see attached* X 4. List of all Rad Chemistry laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site (including the total numbers of these labs (# in-state, #out-of-state).
- #9 →* X 5. List of the State's SDWA Certification Officers and their education and related experience, e.g., completion of SDWA CO's course.
- #10 →* X 6. List of training provided to SDWA Certification Officers in the last year.
- #11* X 7. List of training provided by State to SDWA certification community in the last year.
- #12* X 8. Organizational structure of the State's Lab Certification Program.
- 5/15/14* X 9. List any certification downgrading or upgrading actions in the last year with reasons for those actions.
- #15* X 10. List topics you would like on the next Region 3 SDWA CO's Meeting Agenda or for the national LabCert bulletin.
- #16 attached* X 11. Example inspection reports for the last year, i.e., microbiology report; chemistry report; rad chemistry (rad chemistry for VA; ~~PA~~ MD only).
- see attached* X 12. Example corrective action reports from labs (correspond to report/s in #11).
- X 13. Example SDWA certificates or updates to certificates issued (correspond to report/s in #11). This needs to list analytes and methods (detailed).
- pending* → 14. Important communications, e.g., followup by EPA regarding information provided which causes concern.
- NA 15. Copy of R3's completion of the questionnaire from EPA Cincinnati.

WV 2005 Electronic Inventory

J: \ASQAB \Inspections \SDWA Inspections \SDWA Cert Prog Yrly Quest \2005 \WVA

Name	Size	Type	Last Modified
New Folder <u>CHEM</u>	0	File Folder	7/13/2005 6:50 PM
New Folder (2) <u>MICRO</u>	0	File Folder	7/14/2005 8:29 AM
WQL_7-5-2005	211KB	Adobe Acrobat Document	7/5/2005 2:21 PM

Ex. 5 - Deliberative

J:\ASQAB\Inspections\SDWA Inspections\SDWA Cert Prog Yrly Quest\2005\WVA\New Folder

(CHEM)

Name	Size	Type	Last Modified
AnaLabs Certificate	99KB	Microsoft Word Document	7/12/2005 8:48 AM
AnaLabs Corrective Action Report. pdf	138KB	File	7/12/2005 8:48 AM
Analabs On-Site Inspection 2004.doc	94KB	File	7/12/2005 8:48 AM
EPA R3 Questionnaire 2005	88KB	Microsoft Word Document	7/12/2005 8:48 AM
LIST OF NELAP LABS	26KB	Microsoft Word Document	7/12/2005 8:48 AM
ReRadChemistryLabCertification.doc	3,133	File	7/12/2005 8:48 AM

J:\ASQAB\Inspections\SDWA Inspections\SDWA Cert Prog Yrly Quest\2005\WVA\New Folder (2)

(MICRO)

Name	Size	Type	Last Modified
Blk R3 Quest 05	45KB	Microsoft Word Document	7/13/2005 11:37 AM
Envirolabs Complete Rpt_Final 03-05	106KB	Adobe Acrobat Document	7/13/2005 11:37 AM
Individual Paramters	19KB	Adobe Acrobat Document	7/13/2005 11:37 AM
Item2	9,874	Adobe Acrobat Document	7/13/2005 11:37 AM
Item3	22KB	Adobe Acrobat Document	7/13/2005 11:37 AM
Item4	14KB	Adobe Acrobat Document	7/13/2005 11:37 AM
On-site-PT Tracking Rev.1-2003.doc	169KB	File	7/13/2005 11:37 AM
Out of State Micro Labs 7-05	7,168	Microsoft Excel Worksheet	7/13/2005 11:37 AM
rptCertificates	42KB	Adobe Acrobat Document	7/13/2005 11:37 AM
SUMMARY OF CORRECTIVE ACTIONS FOR ENVIROLABS	41KB	Microsoft Word Document	7/13/2005 11:37 AM
TSB_Packing_List	170KB	Adobe Acrobat Document	7/13/2005 11:37 AM
TSB_QC_Form_1	159KB	Adobe Acrobat Document	7/13/2005 11:37 AM
TSB_QC_Form_2	163KB	Adobe Acrobat Document	7/13/2005 11:37 AM
TSB_QC_Form_3	164KB	Adobe Acrobat Document	7/13/2005 11:37 AM

MICRO

Region 3 SDWA Laboratory Certification Review Questionnaire 2005:

Completed by:

Title:

Date:

Phone:

Fax:

E-Mail:

Organization/Address:

1. While the Laboratory Certification Manual represents guidance from the US EPA, does your State have the manual in State laws? Yes If so what is the reference? §64-3-13. Certification of Laboratories to Conduct Drinking Water Tests.

2. How does your State Lab Cert program (except PA-our R3 NELAC AA) handle NELAC accredited SDWA labs (in State and out-of-State via reciprocity)? No Labs in state. Out-of-state must meet current standards. What kind of documentation is requested from the lab? Successful PT Studies for each analyte/method, Most recent on-site evaluation (if out-of-state lab), Sample records from all items marked "QC" in EPA Cert Manual and certification fee.

3. Provide a listing of all Microbiology laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection. **Include the total number of these labs (# in-State, # Out-of-State).** See attached charts for in state labs and out of state labs. On-sites for out-of-state labs are performed by their home state.

4. Provide a listing of all Chemistry laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection. **Include the total number of these labs (# in-State, # Out-of-State).**

5. Provide a listing of all Rad Chemistry laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection. **Include the total number of these labs (# in-State, # Out-of-State).**

6. Does your State have the resources to carry out the certification program properly (on-sites, PT tracking, certification tracking, issuance of certifications)? Yes What are the major bottlenecks/problems/shortfalls? None

7. EPA requires laboratories to pass a PT for each contaminant by each method, each year for which they are seeking certification. Who in your State keeps the PT data for the private laboratories? Tom Ong Are they checking to be sure the private laboratories pass a PT for contaminants by each method each year for which they are seeking certification? Yes How does your State track the PT performance of laboratories? Spreadsheet Is there an electronic database? Yes

8. Does your program approve labs for TOC and SUVA analyses. Is there a formal approval or

just accepting data from anyone who submits it?

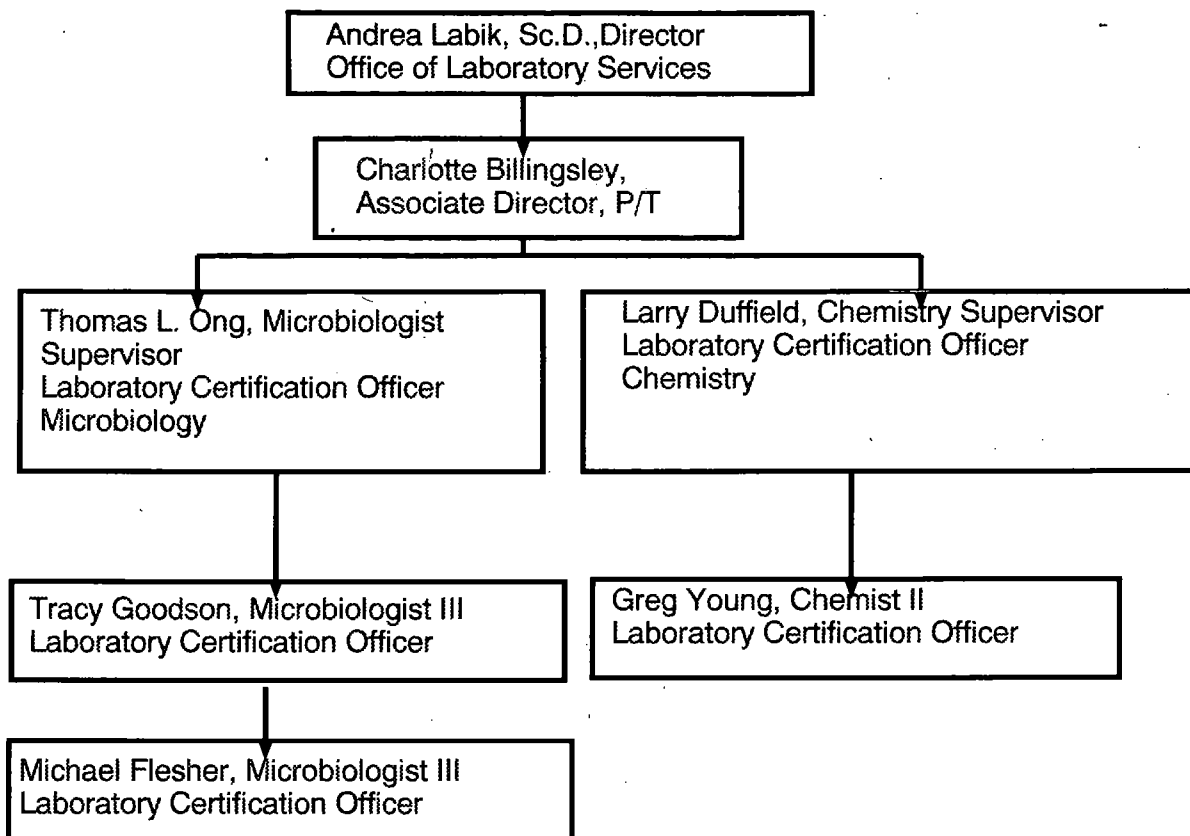
9. List your State's SDWA Certification Officers and their education and related experience, e.g., completion of SDWA CO's course (**please highlight new COs within the last year and include their assessment responsibilities**).

Name	Education	Experience	Area
Thomas L. Ong	B.S. Biology Some Post Graduate Studies	15+ Years Drinking Water & Dairy Microbiology 13+ Years Drinking Water & Dairy Lab Certification Officer	Microbiology
Tracy Goodson	B.S. Biology	5+ Years Drinking Water & Dairy Microbiology 1 Year Drinking Water Laboratory Certification Officer	Microbiology
Michael Flesher	B.A. Education (Biology)	10+ Years Drinking Water & Dairy Microbiology Currently Training for Drinking Water Laboratory Certification Officer	Microbiology

10. List training provided to SDWA Certification Officers in the last year. None??

11. List training provided by State to SDWA certification community in the last year? Some training to a supervisor of a private laboratory.

12. Provide an organizational structure of the State's Lab Certification Program and indicate to what program element/s it reports.



13. Provide a description of the certification procedures including downgrading criteria and process. (Note: if your State follows the Lab Cert Manual indicated revision and section/page number). Please indicate if you have written Quality Manuals/SOPs for your lab certification program and provide their titles.

We use both the Lab Cert Manual (5th Edition January 2005), Chapter III, Pages 6-8 and the USEPA Region III SOP (R3-QA801.0)

The written QA Manual and SOP's for microbiology certification are on file at the Region III Office. It is currently being updated for the new PT protocols and the new lab parameter database (for issuing certificates and parameter sheets). Also, it is going to be converted from Word Perfect to MS Word.

14. List any certification downgrading or upgrading actions in the last year with reasons for those actions.

One laboratories certification was revoked for failure to provide a successful PT Study.

15. List topics you would like on the next Region 3 SDWA CO's Meeting Agenda or for the national LabCert bulletin. Will September 2005 work for a R3's CO's Meeting? As long as it does not conflict with the FDA's Milk Split Sample Program that is scheduled for the week of September 12.

16. Provide example inspection reports for the last year, i.e., microbiology report; chemistry report; rad chemistry (VA; PA; MD).

Attached

17. Provide example corrective action reports from labs (correspond to report/s in #14).

Attached

18. Provide example SDWA certificates or updates to certificates issued (correspond to report/s in #14).

Attached

Ex. 5 - Deliberative



Tom Ong
<tomong@wvdhhr.org>
07/05/2005 02:19 PM

To Joe Slayton/ESC/R3/USEPA/US@EPA, Alan Marchun
<amarchun@wvdhhr.org>, Andrea Labik
<andrealabik@wvdhhr.org>, Barb Taylor

cc
bcc

Subject Certified Drinking Water Lab List

Attached is the updated List of Certified Drinking Water Laboratories.

This list adds Pace Analytical Services and corrects some method listings.

Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer
Laboratory Evaluation Officer
WVDHHR - BPH
Office of Laboratory Services
167 - 11th Avenue
South Charleston, WV 25303
Phone: 304-558-3530, Ext. 2710
email: tomong@wvdhhr.org



WQL_7-5-2005.pdf



STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES
ENVIRONMENTAL CERTIFICATION

Joe Manchin III
Governor

*WATER QUALITY LABORATORIES CERTIFIED BY
WEST VIRGINIA FOR MICROBIOLOGICAL AND/OR
CHEMICAL EXAMINATION OF DRINKING WATER
UNDER THE SAFE DRINKING WATER ACT
"2005 LISTING"*

CERTIFICATION OFFICERS

<i>MICROBIOLOGY</i>		<i>CHEMISTRY</i>	
Thomas L. Ong	(304) 558-3530, x2710	Larry Duffield	(304) 965-2694, x2222
Tracy Goodson	(304) 558-3530, x2701	Greg Young	(304) 965-2694, x2234

BUREAU FOR PUBLIC HEALTH
OFFICE OF LABORATORY SERVICES
167 - 11th Avenue
South Charleston, WV 25303-1137

Phone: (304) 558-3530, Ext. 2710

FAX: (304) 558-2006

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WATER QUALITY LABORATORIES CERTIFIED IN WEST VIRGINIA

For the Bacteriological and/or Chemical Examination of Drinking Water

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Trace Metals Group I				
		Copper	200.8	Certified	
		Lead	200.8	Certified	
	Trace Metals Group II				
		Antimony	200.8	Certified	
		Arsenic	200.8	Certified	
		Barium	200.8	Certified	
		Beryllium	200.8	Certified	
		Cadmium	200.8	Certified	
		Chromium	200.8	Certified	
		Mercury	245.2	Certified	
		Selenium	200.8	Certified	
		Thallium	200.8	Certified	
	Inorganics Group I				
		Nitrate-N	300.0	Certified	
	Inorganics Group II				
		Nitrite-N	SM4500NO2-B	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	
	Organics, Pesticides Group I				
		Endrin	525.2	Certified	
		Heptachlor	525.2	Certified	
		Heptachlor Epoxide	525.2	Certified	
		Hexachlorobenzene	525.2	Certified	
		Hexachlorocyclopentadiene	525.2	Certified	
		Lindane	525.2	Certified	
		Methoxychlor	525.2	Certified	
		Chlordane	525.2	Certified	
		Toxaphene	505	Certified	
	Organics, Pesticides Group II				
		Alachlor	525.2	Certified	
		Atrazine	525.2	Certified	
		Simazine	525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	505	Certified	
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	SM6251B	Certified	
		Chloroacetic Acid	SM6251B	Certified	
		Dibromoacetic Acid	SM6251B	Certified	
		Dichloroacetic Acid	SM6251B	Certified	
		Trichloroacetic Acid	SM6251B	Certified	
	Organics, Herbicides				
		2,4-D	515.3	Certified	
		2,4,5-TP (Silvex)	515.3	Certified	
		Dalapon	515.3	Certified	
		Dinoseb	515.3	Certified	
		Pentachlorophenol	515.3	Certified	
		Picloram	515.3	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
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9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
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Organics, THMs

Chloroform	502.2	Certified
Bromodichloromethane	502.2	Certified
Chlorodibromomethane	502.2	Certified
Bromoform	502.2	Certified

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00442 CM	Analabs, Inc. 196 Dayton Street Crab Orchard, WV 25827 (304) 255-4821 Annissa Reiger				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method
	Trace Metals Group I				
		Copper	200.8, 200.9	Provisional	
		Lead	200.8, 200.9	Provisional	
	Trace Metals Group II				
		Antimony	200.8, 200.9	Provisional	
		Arsenic	200.8, 200.9	Provisional	
		Barium	200.8	Provisional	
		Beryllium	200.8, 200.9	Provisional	
		Cadmium	200.8, 200.9	Provisional	
		Chromium	200.8, 200.9	Provisional	
		Mercury	200.8	Provisional	
		Selenium	200.8, 200.9	Provisional	
		Thallium	200.8, 200.9	Provisional	
	Inorganics Group I				
		Nitrate-N	353.2	Provisional	
	Inorganics Group II				
		Nitrite-N	353.2	Provisional	
	Inorganics Group III				
		Fluoride	SM4500F-C	Provisional	

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<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte Method</i>	<i>Status</i>	<i>Description</i>
00442 CM	Analabs, Inc. 196 Dayton Street Crab Orchard, WV 25827 (304) 255-4821 Annisia Reiger			
	Inorganics Group V			
		Cyanide, Total 335.4	Provisional	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CI	Aqua Tech Environmental Laboratories, Inc. Inorganic Testing 1776 Marion-Waldo Rd. Marion, OH 43302 (740) 389-5991 Deborah Johnson				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8, SM3113B	Certified	
	Trace Metals Group II				
		Antimony	200.8, SM3113B	Certified	
		Arsenic	200.8, SM3113B	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.8	Certified	
		Cadmium	200.8, SM3113B	Certified	
		Chromium	200.8, SM3113B	Certified	
		Mercury	245.2	Certified	
		Selenium	200.8, SM3113B	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	SM4500NO3-F, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	SM4500NO3-F, 353.2	Certified	
	Inorganics Group III				
		Fluoride	SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508, 525.2	Certified	
		Hexachlorocyclopentadiene	508, 525.2	Certified	
		Lindane	508	Certified	
		Methoxychlor	508	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	507, 525.2	Certified	
		Atrazine	507, 525.2	Certified	
		Simazine	507, 525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	508	Certified	
		PCBs (As Decachlorobiphenyl)	508A	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00411 M	Beckley Water Company 1006 Pluto Road Shady Springs , WV 25918 (304) 763-2691 Eddie Kidd				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00171 M	Clarksburg Water Board 1001 South Chestnut Street Clarksburg, WV 26301 (304) 624-5467 Richard Welch				
	Microbiology				
		Total Coliforms	SM9221B, SM9222B, SM9223B	Certified	Multi Tube Fermentation, Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9945 M	EMATS, Inc. 480 Claypool Hill Mall Road Cedar Bluff, VA 24609 (276) 963-8888 Jon Bowerbank				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9923 C	Eno River Labs, LLC 2445 S. Alston Avenue Durham, NC 27713-1301 (919) 281-4040 Bharat Chandramouli				
	Organics, SOCs Group III				
		2,3,7,8-TCDD (Dioxin)	1613B	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00542 M	EnviroLab, Inc 6331 Emerson Avenue Parkersburg, WV 26104 (304) 422-4760 Fred Anderson				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9942 C	Environmental Engineering and Technology, Inc. 712 Gum Rock Court Newport News, VA 23606 (757) 873-1534 Nancy E. McTigue				
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, THMs				
		Chloroform	551.1	Certified	
		Bromodichloromethane	551.1	Certified	
		Chlorodibromomethane	551.1	Certified	
		Bromoform	551.1	Certified	
		Total THMs	551.1	Certified	

**Certification
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Laboratory Contact Information

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Description

9925 M

Express Analytical Services, Inc.
375 Floral Avenue
Chambersburg, PA 17201
(717) 263-3222
Irving M. Kipnis, Ph.D.

Microbiology

Total Coliforms SM9223B

Certified

Colilert

Fecal Coliforms/E. Coli SM9223B

Certified

Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00251 M	Fairmont Water Plant Filtration Plant - Morris Park Fairmont, WV 26554 (304) 366-1461 David Sago				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9924 M	Fredericktowne Labs, Inc, 3020 Ventrie Court Myersville, MD 21773 (301) 293-3340 Mary L. Miller, Ph.D.				
	Microbiology				
		Total Coliforms	SM9221B, SM9223B	Certified	Multi Tube Fermentation, Colilert, Colisure
		Fecal Coliforms/E. Coli	SM9221E, SM9221F, SM9223B	Certified	EC Medium, EC Medium+MUG, Colilert, Colisure
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00191 M	Hydrochem Laboratories, Inc. 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 725-6174 Herbert S. Snyder				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	Trace Metals Group I				
		Copper	200.7	Certified	
	Trace Metals Group II				
		Arsenic	200.7	Certified	
		Barium	200.7	Certified	
		Beryllium	200.7	Certified	
		Cadmium	200.7	Certified	
		Chromium	200.7	Certified	
		Mercury	245.1	Certified	
	Inorganics Group I				
		Nitrate-N	300.0, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	300.0, 353.2	Certified	
	Inorganics Group III				
		Fluoride	300.0, SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland-Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508	Certified	
		Hexachlorocyclopentadiene	508, 525.2	Certified	
		Lindane	508, 525.2	Certified	
		Methoxychlor	508, 525.2	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	507	Certified	
		Atrazine	507	Certified	
		Atrazine	525.2	Certified	
		Simazine	507	Certified	
		Simazine	525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

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Description

9906 C Lancaster Laboratories A Division of Thermo Analytical
2425 New Holland Pike
Lancaster, PA 17601-5994
(717) 656-2300
Timothy S. Oostdyk, Ph.D.

Organics, VOCs Group I

Benzene	524.2	Certified
Carbon Tetrachloride	524.2	Certified
Chlorobenzene	524.2	Certified
1,4-Dichlorobenzene	524.2	Certified
1,2-Dichlorobenzene	524.2	Certified
1,2-Dichloroethane	524.2	Certified
1,1-Dichloroethylene	524.2	Certified
cis-1,2-Dichloroethylene	524.2	Certified
trans-1,2-Dichloroethylene	524.2	Certified
Dichloromethane	524.2	Certified
1,2-Dichloropropane	524.2	Certified
Ethylbenzene	524.2	Certified
Styrene	524.2	Certified
Tetrachloroethylene	524.2	Certified
1,2,4-Trichlorobenzene	524.2	Certified
1,1,1-Trichloroethane	524.2	Certified
1,1,2-Trichloroethane	524.2	Certified
Trichloroethylene	524.2	Certified
Toluene	524.2	Certified
Xylenes (Total)	524.2	Certified
Vinyl Chloride	524.2	Certified

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9951 CM	Microbac Laboratories, Inc. 100 Marshall Drive Warrendale, PA 15086 (724) 772-0610 Mark Matrozza				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
	Trace Metals Group I				
		Copper	200.7	Certified	
		Lead	SM3113B	Certified	
	Trace Metals Group II				
		Antimony	SM3113B	Certified	
		Arsenic	SM3113B	Certified	
		Barium	200.7	Certified	
		Beryllium	SM3113B	Certified	
		Cadmium	200.7, SM3113B	Certified	
		Chromium	200.7	Certified	
		Selenium	SM3113B	Certified	
		Thallium	200.9	Certified	
	Inorganics Group I				
		Nitrate-N	SM4500NO3D, SM4500NO3F	Certified	
	Inorganics Group II				
		Nitrite-N	SM4500NO3-F	Certified	
	Inorganics Group III				
		Fluoride	SM4500F-C	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9951 CM	Microbac Laboratories, Inc. 100 Marshall Drive Warrendale, PA 15086 (724) 772-0610 Mark Matrozza				
	Inorganics Group V				
		Cyanide, Total	SM4500CN-E	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	SM6251B	Certified	
		Chloroacetic Acid	SM6251B	Certified	
		Dibromoacetic Acid	SM6251B	Certified	
		Dichloroacetic Acid	SM6251B	Certified	
		Trichloroacetic Acid	SM6251B	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9951 CM	Microbac Laboratories, Inc. 100 Marshall Drive Warrendale, PA 15086 (724) 772-0610 Mark Matrozza				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

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9951 CM

Microbac Laboratories, Inc.
100 Marshall Drive
Warrendale, PA 15086
(724)-772-0610
Mark Matrozza

Organics, VOCs Group II

Ethylene dibromide (EDB) 504.1

Certified

Dibromochloropropane (DBCP) 504.1

Certified

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9926 M	Mid Atlantic Laboratories, Inc. 224 Main St., Suite 1 Port Royal, VA 22535 (804) 742-5577 Sylvia C. Storke				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00311 M	Morgantown Utility Board Robert B. Creel Water Treatment Facility 171 S. Don Knotts Boulevard Morgantown, WV 26505 (304) 296-4322 Greg Shellito				
	Microbiology				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9943 C	MWH Laboratories, A Division of MWH Americas, Inc. 750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 (626) 386-1100 Andrew Eaton, Ph.D.				
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	SM6251B	Certified	
		Chloroacetic Acid	SM6251B	Certified	
		Dibromoacetic Acid	SM6251B	Certified	
		Dichloroacetic Acid	SM6251B	Certified	
		Trichloroacetic Acid	SM6251B	Certified	
	Organics, THMs				
		Chloroform	524.2, 551.1	Certified	
		Bromodichloromethane	524.2, 551.1	Certified	
		Chlorodibromomethane	524.2, 551.1	Certified	
		Bromoform	524.2, 551.1	Certified	
		Total THMs	524.2, 551.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9943 C	MWH Laboratories, A Division of MWH Americas, Inc. 750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 (626) 386-1100 Andrew Eaton, Ph.D.				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

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<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9943 C	MWH Laboratories, A Division of MWH Americas, Inc. 750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 (626) 386-1100 Andrew Eaton, Ph.D.				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8, SM3113B	Certified	
	Trace Metals Group II				
		Antimony	200.8, SM3113B	Certified	
		Arsenic	200.8, SM3113B	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.7, 200.8	Certified	
		Chromium	200.8, SM3113B	Certified	
		Mercury	200.8	Certified	
		Selenium	200.8, SM3113B	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	300.0	Certified	
	Inorganics Group II				
		Nitrite-N	300.0	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Organics, Pesticides Group I				
		Endrin	505	Certified	
		Heptachlor	505	Certified	
		Heptachlor Epoxide	505	Certified	
		Hexachlorobenzene	505	Certified	
		Hexachlorocyclopentadiene	505	Certified	
		Lindane	505	Certified	
		Methoxychlor	505	Certified	
		Chlordane	505	Certified	
		Toxaphene	505	Certified	
	Organics, Pesticides Group II				
		Alachlor	508.1	Certified	
		Atrazine	508.1	Certified	
		Simazine	508.1	Certified	
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	505	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Organics, Herbicides				
		2,4-D	515.2	Certified	
		2,4,5-TP (Silvex)	515.2	Certified	
		Dalapon	515.3	Certified	
		Dinoseb	515.2	Certified	
		Pentachlorophenol	515.2	Certified	
		Picloram	515.2	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

**Certification
Number**

Laboratory Contact Information

Analyte Method

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Description

9903 C National Testing Laboratory, Ltd.
556 S. Mansfield Road
Ypsilanti, MI 48197
(734) 483-8333
Jim Bahen

Organics, VOCs Group I

Benzene	524.2	Certified
Carbon Tetrachloride	524.2	Certified
Chlorobenzene	524.2	Certified
1,4-Dichlorobenzene	524.2	Certified
1,2-Dichlorobenzene	524.2	Certified
1,2-Dichloroethane	524.2	Certified
1,1-Dichloroethylene	524.2	Certified
cis-1,2-Dichloroethylene	524.2	Certified
trans-1,2-Dichloroethylene	524.2	Certified
Dichloromethane	524.2	Certified
1,2-Dichloropropane	524.2	Certified
Ethylbenzene	524.2	Certified
Styrene	524.2	Certified
Tetrachloroethylene	524.2	Certified
1,2,4-Trichlorobenzene	524.2	Certified
1,1,1-Trichloroethane	524.2	Certified
1,1,2-Trichloroethane	524.2	Certified
Trichloroethylene	524.2	Certified
Toluene	524.2	Certified
Xylenes (Total)	524.2	Certified
Vinyl Chloride	524.2	Certified

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9952 C	Pace Analytical Services, Inc - Minnesota Laboratory 1700 Elm Street SE, Suite 200 Minneapolis, MN 55414 612-607-1700 Bruce E. Warden				
	Organics, SOCs Group III				
		2,3,7,8-TCDD (Dioxin)	1613B	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Microbiology				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colisure
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colisure
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method
	Trace Metals Group I				
		Copper	200.7, 200.8, SM3111B	Certified	
		Lead	200.8, 200.9	Certified	
	Trace Metals Group II				
		Antimony	200.8, 200.9	Certified	
		Arsenic	200.8, 200.9	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.8, 200.9	Certified	
		Chromium	200.8, 200.9	Certified	
		Mercury	245.2	Certified	
		Selenium	200.8, 200.9	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	300.0	Certified	
	Inorganics Group II				
		Nitrite-N	300.0	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	

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<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508	Certified	
		Hexachlorocyclopentadiene	508	Certified	
		Lindane	508	Certified	
		Methoxychlor	508	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	507	Certified	
		Atrazine	507	Certified	
		Simazine	507	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Organics, THMs				
		Chloroform	502.2, 524.2	Certified	
		Bromodichloromethane	502.2, 524.2	Certified	
		Chlorodibromomethane	502.2, 524.2	Certified	
		Bromoform	502.2, 524.2	Certified	
		Total THMs	502.2, 524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Organics, VOCs Group I				
		Benzene	502.2, 524.2	Certified	
		Carbon Tetrachloride	502.2, 524.2	Certified	
		Chlorobenzene	502.2, 524.2	Certified	
		1,4-Dichlorobenzene	502.2, 524.2	Certified	
		1,2-Dichlorobenzene	502.2, 524.2	Certified	
		1,2-Dichloroethane	502.2, 524.2	Certified	
		1,1-Dichloroethylene	502.2, 524.2	Certified	
		cis-1,2-Dichloroethylene	502.2, 524.2	Certified	
		trans-1,2-Dichloroethylene	502.2, 524.2	Certified	
		Dichloromethane	502.2, 524.2	Certified	
		1,2-Dichloropropane	502.2, 524.2	Certified	
		Ethylbenzene	502.2, 524.2	Certified	
		Styrene	502.2, 524.2	Certified	
		Tetrachloroethylene	502.2, 524.2	Certified	
		1,2,4-Trichlorobenzene	502.2, 524.2	Certified	
		1,1,1-Trichloroethane	502.2, 524.2	Certified	
		1,1,2-Trichloroethane	502.2, 524.2	Certified	
		Trichloroethylene	502.2, 524.2	Certified	
		Toluene	502.2, 524.2	Certified	
		Xylenes (Total)	502.2, 524.2	Certified	
		Vinyl Chloride	502.2, 524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	550	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00354 CM	Reliance Laboratories, Inc. 10 Benedum Airport Industrial Park Bridgeport, WV 26330 (304) 842-5285 William Kirk, Jr.				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Readicult Coli 100
		Fecal Coliforms/E. Coli	SM9223B	Certified	Readicult Coli 100
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method
	Trace Metals Group I				
		Copper	200.7	Interim	
		Lead	SM3113B	Interim	
	Trace Metals Group II				
		Antimony	SM3113B	Interim	
		Arsenic	200.7	Interim	
		Barium	200.7	Interim	
		Beryllium	200.7	Interim	
		Cadmium	200.7	Interim	
		Chromium	200.7	Interim	
		Mercury	245.1	Interim	
		Selenium	SM3113B	Interim	
		Thallium	200.9	Interim	
	Inorganics Group I				
		Nitrate-N	300.0	Interim	
	Inorganics Group II				
		Nitrite-N	300.0	Interim	
	Inorganics Group III				
		Fluoride	300.0	Interim	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00354 CM	Reliance Laboratories, Inc. 10 Benedum Airport Industrial Park Bridgeport, WV 26330 (304) 842-5285 William Kirk, Jr.				
	Inorganics Group V				
		Cyanide, Free	SM4500CN-F	Interim	
	Organics, THMs				
		Chloroform	524.2	Interim	
		Bromodichloromethane	524.2	Interim	
		Chlorodibromomethane	524.2	Interim	
		Bromoform	524.2	Interim	
		Total THMs	524.2	Interim	

**Certification
Number**

Laboratory Contact Information

Analyte Method

Status

Description

00354 CM
Reliance Laboratories, Inc.
10 Benedum Airport Industrial Park
Bridgeport, WV 26330
(304) 842-5285
William Kirk, Jr.

Organics, VOCs Group I

Benzene	524.2	Interim
Carbon Tetrachloride	524.2	Interim
Chlorobenzene	524.2	Interim
1,4-Dichlorobenzene	524.2	Interim
1,2-Dichlorobenzene	524.2	Interim
1,2-Dichloroethane	524.2	Interim
1,1-Dichloroethylene	524.2	Interim
cis-1,2-Dichloroethylene	524.2	Interim
trans-1,2-Dichloroethylene	524.2	Interim
Dichloromethane	524.2	Interim
1,2-Dichloropropane	524.2	Interim
Ethylbenzene	524.2	Interim
Styrene	524.2	Interim
Tetrachloroethylene	524.2	Interim
1,2,4-Trichlorobenzene	524.2	Interim
1,1,1-Trichloroethane	524.2	Interim
1,1,2-Trichloroethane	524.2	Interim
Trichloroethylene	524.2	Interim
Toluene	524.2	Interim
Xylenes (Total)	524.2	Interim
Vinyl Chloride	524.2	Interim

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00443 M	Reliance Laboratories, Inc. 25 Crimson Circle Martinsburg, WV 25401 (304) 596-2084 William Kirk, Jr.				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Readicult Coli 100
		Fecal Coliforms/E. Coli	SM9223B	Certified	Readicult Coli 100

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	Trace Metals Group II				
		Mercury	245.2	Certified	
	Inorganics Group I				
		Nitrate-N	353.2	Certified	
	Inorganics Group II				
		Nitrite-N	353.2	Certified	
	Inorganics Group III				
		Fluoride	SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508	Certified	
		Hexachlorocyclopentadiene	508	Certified	
		Lindane	508	Certified	
		Methoxychlor	508	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	Organics, Pesticides Group II				
		Alachlor	505	Certified	
		Atrazine	505	Certified	
		Simazine	505	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	550	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9941 M	Shenandoah Bacteriological Laboratory 434 Reynolds Road Cross Junction, VA 22625 (540) 888-4500 Greg Jones				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colliert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colliert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9930 C	STL Sacramento 880 Riverside Parkway West Sacramento, CA 95605 (916) 374-4441 Eric Redman				
	Organics, SOCs Group III				
		2,3,7,8-TCDD (Dioxin)	1613B	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8, 200.9	Certified	
	Trace Metals Group II				
		Antimony	200.8, 200.9	Certified	
		Arsenic	200.7, 200.8, 200.9	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.7, 200.8	Certified	
		Chromium	200.7, 200.8	Certified	
		Mercury	200.8, 245.1	Certified	
		Selenium	200.8, 200.9	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	300.0, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	300.0, 353.2	Certified	
	Inorganics Group III				
		Fluoride	300.0, SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4, SM4500CN-E	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Organics, Pesticides Group I				
		Endrin	508, 525.2	Certified	
		Heptachlor	508, 525.2	Certified	
		Heptachlor Epoxide	508, 525.2	Certified	
		Hexachlorobenzene	525.2	Certified	
		Hexachlorocyclopentadiene	525.2	Certified	
		Lindane	508, 525.2	Certified	
		Methoxychlor	508, 525.2	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	525.2	Certified	
		Atrazine	525.2	Certified	
		Simazine	525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La.Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00172 CM	Sturm Environmental Services Brushy Fork Road Bridgeport, WV 26330 (304) 623-6549 Susan Hickman				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Trace Metals Group I				
		Copper	200.7	Certified	
		Lead	200.9	Certified	
	Trace Metals Group II				
		Antimony	200.9	Certified	
		Arsenic	200.9	Certified	
		Barium	200.7	Certified	
		Beryllium	200.7	Certified	
		Cadmium	200.9	Certified	
		Chromium	200.9	Certified	
		Mercury	245.1	Certified	
		Selenium	200.9	Certified	
		Thallium	200.9	Certified	
	Inorganics Group I				
		Nitrate-N	300.0, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	300.0, SM4500NO2-B	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	
	Inorganics Group V				
		Cyanide, Total	SM4500CN-E	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508	Certified	
		Hexachlorocyclopentadiene	508	Certified	
		Lindane	508	Certified	
		Methoxychlor	508	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	507	Certified	
		Atrazine	507	Certified	
		Simazine	507	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	508	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2, 550.1	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00353 M	TraDet RD 2, Box 227A, Battle Run Road Triadelphia, WV 26059 (304) 547-9094 Richard Whitt				
	Microbiology				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	Trace Metals Group I				
		Copper	200.8	Certified	
		Lead	200.8	Certified	
	Trace Metals Group II				
		Antimony	200.8	Certified	
		Arsenic	200.8	Certified	
		Barium	200.8	Certified	
		Beryllium	200.8	Certified	
		Cadmium	200.8	Certified	
		Chromium	200.8	Certified	
		Mercury	200.8	Certified	
		Selenium	200.8	Certified	
		Thallium	200.8	Certified	
	Inorganics Group II				
		Nitrite-N	300.0	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	Organics, Herbicides				
		2,4-D	515.3	Certified	
		2,4,5-TP (Silvex)	515.3	Certified	
		Dalapon	515.3	Certified	
		Dinoseb	515.3	Certified	
		Pentachlorophenol	515.3	Certified	
		Picloram	515.3	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8	Certified	
	Trace Metals Group II				
		Antimony	200.8	Certified	
		Arsenic	200.8	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.7, 200.8	Certified	
		Chromium	200.7, 200.8	Certified	
		Mercury	245.1	Certified	
		Selenium	200.8	Certified	
		Thallium	200.8	Certified	
	Inorganics Group I				
		Nitrate-N	300.0, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	353.2	Certified	
	Inorganics Group III				
		Fluoride	Technicon 380-75WE	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Organics, Pesticides Group I				
		Endrin	525.2	Certified	
		Heptachlor	525.2	Certified	
		Heptachlor Epoxide	525.2	Certified	
		Hexachlorobenzene	525.2	Certified	
		Hexachlorocyclopentadiene	525.2	Certified	
		Lindane	525.2	Certified	
		Methoxychlor	525.2	Certified	
		Chlordane	505	Certified	
		Toxaphene	505	Certified	
	Organics, Pesticides Group II				
		Alachlor	525.2	Certified	
		Atrazine	525.2	Certified	
		Simazine	525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	505	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.3	Certified	
		2,4,5-TP (Silvex)	515.3	Certified	
		Dalapon	515.3	Certified	
		Dinoseb	515.3	Certified	
		Pentachlorophenol	515.3	Certified	
		Picloram	515.3	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Organics, THMs				
		Chloroform	524.2, 551.1	Certified	
		Bromodichloromethane	524.2, 551.1	Certified	
		Chlorodibromomethane	524.2, 551.1	Certified	
		Bromoform	524.2, 551.1	Certified	
		Total THMs	524.2, 551.1	Certified	

**Certification -
Number**

Laboratory Contact Information

Analyte Method

Status

Description

9927 C Underwriters Laboratories, Inc.
110 South Hills Street
South Bend, IN 46617
(574) 472-5523
Ed George

Organics, VOCs Group I

Benzene	524.2	Certified
Carbon Tetrachloride	524.2	Certified
Chlorobenzene	524.2	Certified
1,4-Dichlorobenzene	524.2	Certified
1,2-Dichlorobenzene	524.2	Certified
1,2-Dichloroethane	524.2	Certified
1,1-Dichloroethylene	524.2	Certified
cis-1,2-Dichloroethylene	524.2	Certified
trans-1,2-Dichloroethylene	524.2	Certified
Dichloromethane	524.2	Certified
1,2-Dichloropropane	524.2	Certified
Ethylbenzene	524.2	Certified
Styrene	524.2	Certified
Tetrachloroethylene	524.2	Certified
1,2,4-Trichlorobenzene	524.2	Certified
1,1,1-Trichloroethane	524.2	Certified
1,1,2-Trichloroethane	524.2	Certified
Trichloroethylene	524.2	Certified
Toluene	524.2	Certified
Xylenes (Total)	524.2	Certified
Vinyl Chloride	524.2	Certified

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	
	Organics, SOCs Group III				
		2,3,7,8-TCDD (Dioxin)	1613B	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00541 M	Water Environmental Testing Corner of Route 14 and Blair Avenue Mineral Wells, WV 26150 (304) 489-1060 James C. Wright				
	Microbiology				
		Total Coliforms	m-ColiBlue24, SM9223B	Certified	m-ColiBlue24, Colilert
		Fecal Coliforms/E. Coli	m-ColiBlue24, SM9223B	Certified	m-ColiBlue24, Colilert
		Fecal Coliforms/E. Coli	SM9222D	Certified	M-FC Medium (Source Water)
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00051 M	Weirton Water Treatment Plant 3031 Birch Drive Weirton, WV 26062 (304) 797-8529 Scott Klar				
	Microbiology				
		Total Coliforms	SM9221B, SM9222B	Certified	Multi Tube Fermentation, Membrane Filter
		Fecal Coliforms/E. Coli	SM9221E	Certified	EC Medium
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00005 M	West Virginia Department of Health District Environmental Laboratory 1948 Wiltshire Road, Suite #7 Kearneysville, WV 25430 (304) 725-5832 Brenda Wood				
	Microbiology				
		Total Coliforms	SM9221B, SM9222B, SM9223B	Certified	Multi Tube Fermentation, Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00003 C	West Virginia Department of Health Office of Laboratory Services Environmental Chemistry Section 4710 Chimney Drive, Suite G Charleston, WV 25302 (304) 965-2694 Andrea Labik, Sc.D.				
	Trace Metals Group I				
		Copper	SM3113B	Certified	
		Lead	SM3113B	Certified	
	Trace Metals Group II				
		Antimony	SM3113B	Certified	
		Arsenic	SM3113B	Certified	
		Barium	200.7	Certified	
		Beryllium	SM3113B	Certified	
		Cadmium	SM3113B	Certified	
		Chromium	SM3113B	Certified	
		Mercury	245.1	Certified	
		Selenium	SM3113B	Certified	
		Thallium	200.9	Certified	
	Inorganics Group I				
		Nitrate-N	353.2	Certified	
	Inorganics Group II				
		Nitrite-N	353.2	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	
	Inorganics Group V				
		Cyanide, Total	SM4500CN-F	Approved	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00003 M	West Virginia Department of Health Office of Laboratory Services Environmental Microbiology Section 167 - 11th Avenue South Charleston, WV 25302 (304) 558-3530 Andrea Labik, Sc.D.				
	Microbiology				
		Total Coliforms	SM9221B, SM9222B, SM9223B	Certified	Multi Tube Fermentation, Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00351 CM	Wheeling Water Treatment Plant 1305 Richland Avenue Wheeling, WV 26003 (304) 234-3835 Philip Kowalski				
	Microbiology				
		Total Coliforms	SM9221B, SM9223B	Certified	Multi Tube Fermentation, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method
	Organics, THMs				
		Chloroform	502.2	Interim	
		Bromodichloromethane	502.2	Interim	
		Chlorodibromomethane	502.2	Interim	
		Bromoform	502.2	Interim	
		Total THMs	502.2	Interim	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00282 M	WVAWC - Bluefield RR 2, Box 425 A Bluefield, WV 24701 (304) 327-8913 David L. Thomas				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00446 M	WVAVC - Bluestone 227 Edwards Road True, WV 25988 (304) 466-5050 David L. Thomas				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00061 M	WVAWC - Huntington 24th Street and Ohio River Road Huntington, WV 25703 (304) 525-8193 Sandra Johnson				
	Microbiology				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221F, SM9223B	Certified	EC Medium+MUG, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00201 CM	WVAWC - Kanawha Valley Court and Dryden Streets Charleston, WV 25301 (304) 340-2037 Dave Peters				
	Microbiology				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221F, SM9223B	Certified	EC Medium+MUG, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00102 M	WVAWC - New River Plant 300 Bachman Road Beckwith, WV 25840 (304) 574-4075 Marshall Murray				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00211 M	WVAWC - Weston 1243 US Highway 19 South Weston, WV 26452-8207 (304) 269-4272 Billie Suder				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

DRINKING WATER CERTIFICATION ON-SITE & P.T. TRACKING CHART														Page Page 2 of 5	Rev. 7/20/2005		
Laboratory Information	On-Site Evaluations <i>Projected</i>	Acceptable Proficiency Tests									Unacceptable Proficiency Tests						
		SM 9222 - MP / mColBlue23			SM 9271 - MP			SM 9254 - Chromogenic/Fluorogenic									
		Date	Study	Provider	Date	Study	Provider	Date	Study	Provider	Method	Date	Study	Provider			
Hydrochem Laboratories, Inc. (00191 M) Rt. 18 & First Street Shenandoah Junction, WV 25442 Herbert S. Snyder (304) 725-6174 USEPA # WV00400 Study Provider # H9302-01	(Sep 2005) Sep 26, 2002							/ / 04 4/23/03 5/13/02	WS-92 WS-80 WS-68	ERA ERA ERA							
Morgantown Utility Board (00311 M) Robert B. Creel Water Treatment Facility 171 South University Avenue Morgantown, WV 26505 Greg Shellito (304) 296-4322 USEPA# WV01017 Study Provider# M5789-01	(June 2007) June 1-2, 2004 Sep 7-8, 2000	3/17/04 3/24/03 12-16-02	WS-92 WS-80 WS-75	ERA ERA ERA				2/25/04 3/20/03 11/19/02	WS-91 WS-79 WS-74	ERA ERA ERA							
REI Consultants (00412 CM) 225 Industrial Park Road Beaver, WV 25813 Claude Scott 1-800-999-0105 USEPA # WV00043 Study Provider # R1967-01	(August 2005) Jun 12-13, 2003 Feb 8-9, 2000	3/17/04 4/2/03 8/21/02	WS-92 WS-80 WS-71	ERA ERA ERA				2/3/04 2/20/03 6/20/02	WS-90 WS-78 WS-69	ERA ERA ERA							
Reliance Laboratories, Inc (00443 CM) One Eagle Plaza, Suite 1 Hedgesville, WV 25427 William Kirk, Jr. (304) 754-7360 USEPA # Study Provider # R2377-01	(Sep 2005) Sep 26, 2002							3/24/05 4/8/04 3/17/03 12/02	5101 MS-056 WS-79 WS-76	APG NSI ERA ERA							
Reliance Laboratories, Inc (00354 CM) 10 Benedum Airport Industrial Park Bridgeport, WV 26330 William Kirk, Jr. (304) 842-5285 USEPA # WV00042 Study Provider # R2006-01	(May 2006) May 21, 2004 Sep 20-21, 2000	9/23/02	WS-72	ERA				3/21/05 4/26/04 3/19/03 5/13/02	5101 WS-92 WS-79 WS-68	APG ERA ERA ERA	¹ SM 9222	¹ 3/18/03	¹ WS-79	¹ ERA			
Dropping MF per Phone 7/ / 03														¹ Same Study Two Methods & Reported only Total			

DRINKING WATER CERTIFICATION ON-SITE & P.T. TRACKING CHART															
Laboratory Information		On-Site Evaluations	Acceptable Proficiency Tests									Unacceptable Proficiency Tests			
Projected	SM 9222 – MFC / mColiBlue 24			SM 9221 – SMLE / Sec /			SM 9223 – Chromogenic / Plantasek			Method	Date	Study	Provider		
	Date	Study	Provider	Date	Study	Provider	Date	Study	Provider						
Analabs, Inc. (00442 CM) 196 Dayton Street Crab Orchard, WV 25827 Charles Thompson (304) 255-4821 USEPA # WV00023 Study Provider # A5211-01		(Aug 2005) Jun 11, 2001							2/14/05 2/17/04 1/20/03 5/13/02	WS-102 WS-90 WS-78 WS-68	ERA ERA ERA ERA				
Beckley Water Company (00411 M) 1006 Pluto Road Shady Springs, WV 25918 Eddie Kidd (304) 255-5155 USEPA # Study Provider #		(Jun 2006) Jun 5, 2003 Feb 10, 2000							2/18/05 2/11/04 1/11/03 4/22/02	C2, Lot 85 C4, Lot 61 C2, Lot 45 C2, Lot 29	LabProf. LabProf. LabProf. LabProf.				
Bio-Tech Analytical Services (Pending) 15 Hovatter Drive Inwood, WV 25428 USEPA # WV01026 Study Provider#									2/16/05	021605A	ERA				
Clarksburg Water Board (00171 CM) 1001 South Chestnut Street Clarksburg, WV 26301 Richard Welch (304) 624-5467 USEPA# WV00900 Study Provider# C4653-01		(Oct 2006) Oct 4-5, 2004 Sep 21-22, 2000	4/26/04 4/23/03 9/23/02	WS-92 WS-80 WS-72	ERA ERA ERA	5/26/04 4/23/03 12/16/02	WS-93 WS-79 WS-75	ERA ERA ERA	1/20/04 2/26/03 1/10/03 10/18/02	WS-90 WS-78 WS-76 WS-73	ERA ERA ERA ERA	SM 9221	11/19/02	WS-74	ERA
Envirolabs, Inc. (00542 M) 5327 Emerson Avenue Parkersburg, WV 26101 Fred Anderson (304) 422-4760 USEPA # WV00996 Study Provider #		(Mar 2007) Mar 3, 2005 Jan 25, 2001	12/17/03 1/8/02	0603J 0102C	LabProf. LabProf.				2/ /05	OS05/01/104	RTC	² SM 9221 F ¹ SM 9222	² 10/10/03 ¹ 3/4/03	² WS29 ¹ 0203A	² Microchk ¹ LabProf.
												¹ Reported only Total Coliform ² E.coli – Acceptable/Total Only 6/10 - Acceptable			
Fairmont Water Plant (00251 M) Filtration Plant – Morris Park Fairmont, WV 26555-1428 Doug Amos (304) 366-1461 USEPA # WV00251 Study Provider #		(June 2006) June 3, 2004 Sep 18-19, 2000							1/26/04 1/16/03 11/18/02	C2, Lot 61 C1, Lot 45 C3; Lot 45	LabProf. LabProf. LabProf.				

DRINKING WATER CERTIFICATION ON-SITE & P.T. TRACKING CHART															
Laboratory Information		On-Site Evaluations	Acceptable Proficiency Tests									Unacceptable Proficiency Tests			
		Projected	SM 9222 - MTF 2 - mColBlue 24			SM 9221 - MTF 1 - F 4			SM 9223 - Chromogenic/Turbidimetric						
			Date	Study	Provider	Date	Study	Provider	Date	Study	Provider	Method	Date	Study	Provider
WVAWC-Bluefield District (00282 M) RR 2, Box 425A Bluefield, WV 24701 Dave Thomas (304) 327-8913 USEPA # Study Provider # W2153-01		(Aug 2005) May 31, 2001	2/23/04 9/8/03	WS-91 WS-85	ERA ERA							¹ SM 9222 ¹ SM 9222	¹ 3/10/03	¹ WS-83 ¹ WS-79	¹ ERA ¹ ERA
WVAWC-Bluestone District (00446 M) 227 Edwards Road Irene, WV 25988 Dave Thomas (304) 466-5050 USEPA # Study Provider # W2153-02		(Aug 2005) Jun 21-22, 2001	2/22/04 3/10/03	WS-91 WS-79	ERA ERA							¹ Study contained at least one False-Negative			
WVAWC-Huntington District (00061 M) 24 th Street & Ohio River Road Huntington, WV 25710 Sandra Johnson (304) 525-8193 USEPA # WV00061 Study Provider # W2154-01		(Mar 2006) Mar 27-28, 2003 Mar 23-24, 2000	7/22/03	WS-91 WS-83	ERA ERA				1 / 05 2/23/03	WS-102 WS-92 WS-79	ERA ERA ERA	¹ SM 9222	¹ 2/23/03	¹ WS-79	¹ ERA
WVAWC-Kanawha Valley District (00201 CM) Court & Dryden Streets Charleston, WV 25301 Dave Peters (304) 3402037 USEPA # WV00046 Study Provider # W2131-01		(May 2006) May 29, 2003 Sep 8, 1999	2/3/04 3/17/03	WS-90 WS-79	ERA ERA				1/ / 05 2/17/04	WS-101 WS-91	ERA ERA	¹ Same Study for Two Methods			
WVAWC-New River Plant (00102 M) 300 Bachman Road Beckwith, WV 25840 Marshall Murray (304) 465-0682 USEPA # WV00102 Study Provider # W2153-03		(Aug 2005) Jun 6, 2001	3/2/04 2/25/03	WS-91 WS-79	ERA ERA							¹ SM 9222	¹ 2/25/03	¹ WS-79	¹ ERA
											¹ Sent Raw Results to State, Not ERA				

DRINKING WATER CERTIFICATION ON-SITE & P.T. TRACKING CHART														Page Page 3 of 5	Rev. 7/20/2005
Laboratory Information	On-Site Evaluation <i>Projected</i>	Acceptable Proficiency Tests									Unacceptable Proficiency Tests				
		SM 9221 - MTF - Chromogenic Method			SM 9221 - MTF - EPA			SM 9223 - Chromogenic Method			Method	Date	Study	Provider	
		Date	Study	Provider	Date	Study	Provider	Date	Study	Provider					
Sturm Environmental Services (00172 CM) Brushy Fork Road Bridgeport, WV 26330 David W. Fisher (304) 623-6549 USEPA# WV00026 Study Provider# S6432-01	<i>(Jun 2007)</i> June 3, 2004 Mar 22-23, 2001							2/16/04 3/10/03 12/16/02	WS-90 WS-79 WS-75	ERA ERA ERA					
TraDet Laboratories, Inc. (00353 M) RD 2, Box 227A Battle Run Road Triadelphia, WV 26003 Richard P. Whitt (304) 547-9094 USEPA # Study Provider #	<i>(Jan 2006)</i> Jan 21-22, 2003 Nov 1-2, 1999	3-2-04 5/19/03 9/23/02	WS-91 WS-82 WS-72	ERA ERA ERA				1 / 05 1/19/04 6/19/03 6/20/02	WS-102 WS-90 WS-83 WS-69	ERA ERA ERA ERA					
Water Environmental Testing (00541 M) Corner of Route 14 & Blair Avenue Mineral Wells, WV 26150 James C. Wright (304) 489-1060 USEPA # WV00991 Study Provider # W0678-01	<i>(May 2006)</i> May 27-28, 2003 May 30-31, 2000	*3/10/04 *2/24/03 *9/23/02	*WS-91 *WS-79 *WS-72	ERA *ERA *ERA				1/28/04 2/10/03 8/21/02	WS-90 WS-78 WS-71	ERA ERA ERA					
Weirton Water Treatment Plant (00051 M) 3031 Birch Drive Weirton, WV 26062 Jeff Pearce (304) 797-8566 USEPA# WV00982 Study Provider # C4633-01 (ERA)	<i>(Dec 2007)</i> Dec 9-10, 2004 Dec 14-15, 2000	5/26/04 2/26/03 12/16/02	WS-94 WS-80 WS-75	ERA ERA ERA	3/1/04 3/24/03 11/19/02	WS-91 WS-79 WS-74	ERA ERA ERA				SM 9222	8/21/02	WS-71	ERA	
Wheeling Water Treatment Plant (00351 CM) 1305 Richland Avenue Wheeling, WV 26003 Philip Kowalski (304) 234-3835 USEPA #WV00039 Study Provider #	<i>(Oct 2007)</i> Oct 7-8, 2004 Nov 8-9, 2000				2/8/05 8/31/04 3/11/03 11/19/02	C2, Lot85 C4, Lot62 0203-D 0602-C	LabProf. LabProf. LabProf. LabProf.	2/8/05 2/14/04 3/11/03 11/19/02	C1, Lot85 0104-A 0203-C 0602-D	LabProf. LabProf. LabProf. LabProf.	SM 9221	2/14/04	0104-B	LabProf.	

DRINKING WATER CERTIFICATION ON-SITE & P.T. TRACKING CHART														Page Page 5 of 5	Rev. 7/20/2005
Laboratory Information	On-Site Evaluations <i>(Projected)</i>	Acceptable Proficiency Tests									Unacceptable Proficiency Tests				
		SM 9222 – ME / ColiBlue 24			SM 9221 – MTT			SM 9223 – Chromogenic Countdown							
		Date	Study	Provider	Date	Study	Provider	Date	Study	Provider	Method	Date	Study	Provider	
WVAWC-Weston District R.R. 2, Box 192 Weston, WV 26452 Billie Suder (304) 269-1804 USEPA # Study Provider # W2152-01	(Mar 2006) Mar 31-1, 2004 Oct 12-13, 2000	2/19/04 2/26/03	WS-91 WS-79	ERA ERA											
WVDHHR-BPH (USEPA# 00902) Office of Laboratory Services 167 – 11 th Avenue South Charleston, WV 25303 Andrea Labik, Sc.D. (304) 558-3530 USEPA # WV00902 Study Provider #	Jun 2003 Nov 30, 1999	3/24/03 2/25/02	WS-79 WS-67	ERA ERA	1/13/03 1/15/02	WS-77 WS-65	ERA ERA	1/28/03 1/17/02	WS-78 WS-66	ERA ERA					
WVDHHR-BPH (00005) Region 9 District Health Office 44 Wiltshire Road Kearneysville, WV 25430 Brenda Wood (304) 725-5832 USEPA # WV01011 Study Provider # S7444-01	(Sep 2005) Sep 24-25, 2002	3/22/04 3/24/03	WS-92 WS-80	ERA ERA	3/1/04 3/10/03	WS-91 WS-79	ERA ERA	/ /05 2/4/04	WS-102 WS-90 WS-78	ERA ERA ERA					

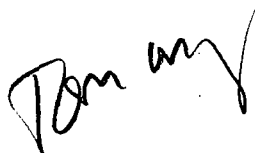


Tom Ong

<tomong@wvdhhr.org>

02/04/2005 03:25 PM

To: Joe Slayton/ESC/R3/USEPA/US@EPA, Alan Marchun <amarchun@wvdhhr.org>, Andrea Labik <andrealabik@wvdhhr.org>, Barb Taylor <barbtaylor@wvdhhr.org>, Barbara Napier <bnapier@wvdhhr.org>, Bob Hart <bobhart@wvdhhr.org>, Brad Cochran <bradcochran@wvdhhr.org>, Bradley Reed <breed@wvdhhr.org>, Christopher Farrish <christopherfarrish@wvdhhr.org>, Clarence Christian <clarencechristian@wvdhhr.org>, Craig Cobb <craigcobb@wvdhhr.org>, Charles Robinette <crobinette@wvdhhr.org>, Clement Sees <csees@wvdhhr.org>, Connie Snyder <csnyder@wvdhhr.org>, Dan Hill <danhill@wvdhhr.org>, Dawn Newell <dawnnewell@wvdhhr.org>, David McCoy <dmccoy@wvdhhr.org>, Dan Parker <dparker@wvdhhr.org>, David Thornton <dthornton@wvdhhr.org>, Gary Wilson <gwilson@wvdhhr.org>, Helen Crum <hcrum@wvdhhr.org>, "J.D. Douglas" <jddouglas@wvdhhr.org>, Joseph Motus <josephmotus@wvdhhr.org>, John Shufflebarger <jshufflebarger@wvdhhr.org>, Joseph Wyatt <jwyatt@wvdhhr.org>, Linda Whaley <lindawhaley@wvdhhr.org>, Michael Hawranick <mhawranick@wvdhhr.org>, Michael Brown <michaelbrown@wvdhhr.org>, Michael Troyan <michaeltroyan@wvdhhr.org>, Michelle Cochran <michellecochran@wvdhhr.org>, Mark Whittaker <mwhittaker@wvdhhr.org>, Michael Koch <mwkoch@wvdhhr.org>, Nathan Douglas <nathandouglas@wvdhhr.org>, Patrick Murphy <patrickmurphy@wvdhhr.org>, Patrick Taylor <patricktaylor@wvdhhr.org>, Phil Jones <pjones@wvdhhr.org>, Philip Martino <pmartino@wvdhhr.org>, Russell Hicks <russellhicks@wvdhhr.org>, Richard Wheeler <rwheeler@wvdhhr.org>, Scott Rodeheaver <scottrodeheaver@wvdhhr.org>, Tom Felton <tomfelton@wvdhhr.org>, VJ Davis <vjdavis@wvdhhr.org>, Walter Ivey



<walterivey@wvdhhr.org>, Wayne Wilson
<waynewilson@wvdhhr.org>, William Herold
<wherold@wvdhhr.org>, William Toomey
<wtoomey@wvdhhr.org>

cc:

bcc:

Subject: WV Certified Drinking Water Laboratories

Attached is the 2005 Listing of Laboratories Certified to perform Microbiological and/or Chemical Analysis of Drinking Water information will also soon be available on the web at:

<http://www.wvdhhr.org/labservices/shared/docs/EnvMicro/water>

If there are any questions, please feel free to contact me.

Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer
Laboratory Evaluation Officer
WVDHHR - BPH
Office of Laboratory Services
167 - 11th Avenue
South Charleston, WV 25303
Phone: 304-558-3530, Ext. 2710
email: tomong@wvdhhr.org



WQL_Rev_2-3-2005.pdf

Type: application/pdf

Name: WQL_Rev_2-3-2005.pdf

167 - 11th Avenue

South Charleston, WV 25303

Phone: 304-558-3530, Ext. 2710

email: tomong@wvdhhr.org

Tom,

Please find attached a copy of the TSB packing form. We received the TSB today and I started the tests. I have also attached your TSB form filled out to this point. I will forward an updated copy tomorrow at the 24hr point.

If you would forward the invoice we will send a check via FedEx overnight delivery.

We are expecting samples on Wednesday from all three Cities. If all goes well with the TSB and you get the check is it alright for us to go ahead and run these samples?

Thanks,
Fred

-----Original Message-----

From: Tom Ong [<mailto:tomong@wvdhhr.org>]

Sent: Friday, March 04, 2005 3:27 PM

To: FredAnderson@asipt.com

Subject: TSB QC Form

Mr. Anderson,

Please find the attached form that we discussed on Thursday, it should be self explanatory. The following items are needed to regain certification:

1. Submit a completed copy of the attached form and include a shipping invoice for the Tryptic Soy Broth when received. If the Tryptic Soy Broth is a different lot number than previously received, the bottle sterility checks will need to be redone.

2. Change all references of Fecal Coliform to E. coli and submit copies.
3. Add Analysis Requested to COC (i.e., Total Coliforms/E. coli) and submit a copy.
4. Address the issue of notifying clients before disposal of any records pertaining to micro analysis.

When the above items are received, an invoice will be sent for the 2005 year. Once payment is received, a certificate and parameter sheet will be issued.

A formal report will be issued next week. If you have any questions, please do not hesitate to contact me.

Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer
Laboratory Evaluation Officer
WVDHHR - BPH
Office of Laboratory Services
167 - 11th Avenue
South Charleston, WV 25303
Phone: 304-558-3530, Ext. 2710
email: tomong@wvdhhr.org
Tom,

Please find attached the TSB sheet you prepared with the 25hr observations. I will also forward it tomorrow with the 48hr observations.

Thanks again for all your help

Fred

-----Original Message-----

From: Tom Ong [<mailto:tomong@wvdhhr.org>]
Sent: Tuesday, March 08, 2005 2:43 PM
To: FredAnderson@asipt.com
Subject: Invoice

Attached, please find the invoice for 2005. You do not need to send the

information listed at the bottom of the invoice. Was this TSB the same lot number as before?

As soon as the fee is received, your certification will be reinstated and a certificate and parameter sheet will be forwarded. I will notify you by email of receipt of your check. If you have any questions or need further assistance, do not hesitate to contact me.

Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer
Laboratory Evaluation Officer
WVDHHR - BPH
Office of Laboratory Services
167 - 11th Avenue
South Charleston, WV 25303
Phone: 304-558-3530, Ext. 2710
email: tomong@wvdhhr.org

Tom,

As promised, please find attached the TSB sheet you prepared with the 48hr observations.

Thanks again for all your help

Fred

Out of STATE micro labs 7/25/05

Cert#ID	Lab	LaboratoryAddress	City
9924 M	Fredericktowne Labs, Inc,	3020 Ventrle Court	Myersville
9925 M	Express Analytical Services, Inc.	375 Floral Avenue	Chambersburg
9926 M	Mid Atlantic Laboratories, Inc.	224 Main St., Suite 1	Port Royal
9941 M	Shenandoah Bacteriological Laboratory	434 Reynolds Road	Cross Junction
9945 M	EMATS, Inc.	480 Claypool Hill Mall Road	Cedar Bluff
9951 CM	Microbac Laboratories, Inc.	100 Marshall Drive	Warrendale

State	Zip	MailAddress	MailCity	MailStat	MailZip
MD	21773	P.O. Box 245	Myersville	MD	21773
PA	17201	P.O. Box 306	Chambersburg	PA	17201-0306
VA	22535	Timber Rd.	King George	VA	22485-3009
VA	22625	Road	Cross Junction	VA	22625
VA	24609	P.O. Box 40	Cedar Bluff	VA	24609
PA	15086	Drive	Warendale	PA	15086

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WATER QUALITY LABORATORIES CERTIFIED IN WEST VIRGINIA

For the Bacteriological and/or Chemical Examination of Drinking Water

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Trace Metals Group I				
		Copper	200.8	Certified	
		Lead	200.8	Certified	
	Trace Metals Group II				
		Antimony	200.8	Certified	
		Arsenic	200.8	Certified	
		Barium	200.8	Certified	
		Beryllium	200.8	Certified	
		Cadmium	200.8	Certified	
		Chromium	200.8	Certified	
		Mercury	245.2	Certified	
		Selenium	200.8	Certified	
		Thallium	200.8	Certified	
	Inorganics Group I				
		Nitrate-N	300.0	Certified	
	Inorganics Group II				
		Nitrite-N	SM4500NO2-B	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	
	Organics, Pesticides Group I				
		Endrin	525.2	Certified	
		Heptachlor	525.2	Certified	
		Heptachlor Epoxide	525.2	Certified	
		Hexachlorobenzene	525.2	Certified	
		Hexachlorocyclopentadiene	525.2	Certified	
		Lindane	525.2	Certified	
		Methoxychlor	525.2	Certified	
		Chlordane	525.2	Certified	
		Toxaphene	505	Certified	
	Organics, Pesticides Group II				
		Alachlor	525.2	Certified	
		Atrazine	525.2	Certified	
		Simazine	525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	505	Certified	
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	SM6251B	Certified	
		Chloroacetic Acid	SM6251B	Certified	
		Dibromoacetic Acid	SM6251B	Certified	
		Dichloroacetic Acid	SM6251B	Certified	
		Trichloroacetic Acid	SM6251B	Certified	
	Organics, Herbicides				
		2,4-D	515.3	Certified	
		2,4,5-TP (Silvex)	515.3	Certified	
		Dalapon	515.3	Certified	
		Dinoseb	515.3	Certified	
		Pentachlorophenol	515.3	Certified	
		Picloram	515.3	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Organics, THMs				
		Chloroform	502.2	Certified	
		Bromodichloromethane	502.2	Certified	
		Chlorodibromomethane	502.2	Certified	
		Bromoform	502.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9911 C	American Water Works Service Co., Inc. d.b.a. Belleville Laboratory 1115 South Illinois Street Belleville, IL 62220-3102 (618) 235-3600 Cheryl Norton				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00442 CM	Analabs, Inc. 196 Dayton Street Crab Orchard, WV 25827 (304) 255-4821 Annissa Reiger				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method
	Trace Metals Group I				
		Copper	200.8, 200.9	Certified	
		Lead	200.8, 200.9	Certified	
	Trace Metals Group II				
		Antimony	200.8, 200.9	Certified	
		Arsenic	200.8, 200.9	Certified	
		Barium	200.8	Certified	
		Beryllium	200.8, 200.9	Certified	
		Cadmium	200.8, 200.9	Certified	
		Chromium	200.8, 200.9	Certified	
		Mercury	200.8	Certified	
		Selenium	200.8, 200.9	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	353.2	Certified	
	Inorganics Group II				
		Nitrite-N	353.2	Certified	
	Inorganics Group III				
		Fluoride	SM4500F-C	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00442 CM	Analabs, Inc. 196 Dayton Street Crab Orchard, WV 25827 (304) 255-4821 Annissa Reiger				
	<i>Inorganics Group V</i>				
		Cyanide, Total	335.4	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9905 CI	Aqua Tech Environmental Laboratories, Inc. Inorganic Testing 1776 Marion-Waldo Rd. Marion, OH 43302 (740) 389-5991 Deborah Johnson				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8, SM3113B	Certified	
	Trace Metals Group II				
		Antimony	200.8, SM3113B	Certified	
		Arsenic	200.8, SM3113B	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.8	Certified	
		Cadmium	200.8, SM3113B	Certified	
		Chromium	200.8, SM3113B	Certified	
		Mercury	245.2	Certified	
		Selenium	200.8, SM3113B	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	SM4500NO3-F, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	SM4500NO3-F, 353.2	Certified	
	Inorganics Group III				
		Fluoride	SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
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9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
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Organics, Pesticides Group I

Endrin	508	Certified
Heptachlor	508	Certified
Heptachlor Epoxide	508	Certified
Hexachlorobenzene	508, 525.2	Certified
Hexachlorocyclopentadiene	508, 525.2	Certified
Lindane	508	Certified
Methoxychlor	508	Certified
Chlordane	508	Certified
Toxaphene	508	Certified

Organics, Pesticides Group II

Alachlor	507, 525.2	Certified
Atrazine	507, 525.2	Certified
Simazine	507, 525.2	Certified

Organics, Pesticides Group III

Aldicarb	531.1	Certified
Aldicarb Sulfone	531.1	Certified
Aldicarb Sulfoxide	531.1	Certified
Carbofuran	531.1	Certified
Oxamyl (Vydate)	531.1	Certified

Organics, Pesticides Group IV

PCBs (As Aroclors)	508	Certified
PCBs (As Decachlorobiphenyl)	508A	Certified

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	<i>Organics, THMs</i>				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9905 CO	Aqua Tech Environmental Laboratories, Inc. Organic Testing 6878 South State Rt. 100 Melmore, OH 44845 (419) 397-2659 Todd Brown				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	<i>Organics, SOCs Group I</i>				
		Benzo(a)pyrene	525.2	Certified	
	<i>Organics, SOCs Group II</i>				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00411 M	Beckley Water Company 1006 Pluto Road Shady Springs , WV 25918 (304) 763-2691 Eddie Kidd				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00171 M	Clarksburg Water Board 1001 South Chestnut Street Clarksburg, WV 26301 (304) 624-5467 Richard Welch				
	Microbiology				
		Total Coliforms	SM9221B, SM9222B, SM9223B	Certified	Multi Tube Fermentation, Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9945 M	EMATS, Inc. 480 Claypool Hill Mall Road Cedar Bluff, VA 24609 (276) 963-8888 Jon Bowerbank				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9923 C	Eno River Labs, LLC 2445 S. Alston Avenue Durham, NC 27713-1301 (919) 281-4040 Bharat Chandramouli				
	Organics, SOCs Group III				
		2,3,7,8-TCDD (Dioxin)	525.2, 550.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9942 C	Environmental Engineering and Technology, Inc. 712 Gum Rock Court Newport News, VA 23606 (757) 873-1534 Nancy E. McTigue				
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, THMs				
		Chloroform	551.1	Certified	
		Bromodichloromethane	551.1	Certified	
		Chlorodibromomethane	551.1	Certified	
		Bromoform	551.1	Certified	
		Total THMs	551.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9925 M	Express Analytical Services, Inc. 375 Floral Avenue Chambersburg, PA 17201 (717) 263-3222 Irving M. Kipnis, Ph.D.				
	<i>Microbiology</i>				
		Total Coliforms	SM9223B	Certified	Colliert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colliert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00251 M	Fairmont Water Plant Filtration Plant - Morris Park Fairmont, WV 26554 (304) 366-1461 David Sago				
	<i>Microbiology</i>				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

**Certification
Number**

Laboratory Contact Information

Analyte Method

Status

Description

9924 M

Fredericktowne Labs, Inc,
3039-C Ventrie Court
Myersville, MD 21773
(301) 293-3340
Mary L. Miller, Ph.D.

Microbiology

Total Coliforms SM9221B, SM9223B

Certified

Multi Tube Fermentation, Colilert,
Colisure

Fecal Coliforms/E. Coli SM9221E, SM9221F,
SM9223B

Certified

EC Medium, EC Medium+MUG,
Colilert, Colisure

Heterotrophic Bacteria SM9215B

Certified

HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00191 M	Hydrochem Laboratories, Inc. 85 Potomac Avenue Shenandoah Junction, WV 25442 (304) 725-6174 Herbert S. Snyder				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	<i>Trace Metals Group I</i>				
		Copper	200.7	Certified	
		Lead	200.9	Certified	
	<i>Trace Metals Group II</i>				
		Antimony	200.9	Certified	
		Arsenic	200.7	Certified	
		Barium	200.7	Certified	
		Beryllium	200.7	Certified	
		Cadmium	200.7	Certified	
		Chromium	200.7	Certified	
		Mercury	245.1	Certified	
		Selenium	200.9	Certified	
		Thallium	200.9	Certified	
	<i>Inorganics Group I</i>				
		Nitrate-N	300.0, 353.2	Certified	
	<i>Inorganics Group II</i>				
		Nitrite-N	300.0, 353.2	Certified	
	<i>Inorganics Group III</i>				
		Fluoride	300.0, SM4500F-C	Certified	
	<i>Inorganics Group V</i>				
		Cyanide, Total	335.4	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	Organics, Pesticides Group I				
		Hexachlorocyclopentadiene	525.2	Certified	
		Lindane	525.2	Certified	
		Methoxychlor	525.2	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Atrazine	525.2	Certified	
		Simazine	525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9906 C	Lancaster Laboratories A Division of Thermo Analytical 2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656-2300 Timothy S. Oostdyk, Ph.D.				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	<i>Organics, SOCs Group I</i>				
		Benzo(a)pyrene	525.2	Certified	
	<i>Organics, SOCs Group II</i>				
		Di(2-ethylhexyl)phthalate	525.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9951 CM	Microbac Laboratories, Inc. 100 Marshall Drive Warrendale, PA 15086 (724) 772-0610 Mark Matrozza				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
	Trace Metals Group I				
		Copper	200.7	Certified	
		Lead	SM3113B	Certified	
	Trace Metals Group II				
		Antimony	SM3113B	Certified	
		Arsenic	SM3113B	Certified	
		Barium	200.7	Certified	
		Beryllium	SM3113B	Certified	
		Cadmium	200.7, SM3113B	Certified	
		Chromium	200.7	Certified	
		Selenium	SM3113B	Certified	
		Thallium	200.9	Certified	
	Inorganics Group III				
		Fluoride	SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	SM4500CN-E	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9951 CM	Microbac Laboratories, Inc. 100 Marshall Drive Warrendale, PA 15086 (724) 772-0610 Mark Matrozza				
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	SM6251B	Certified	
		Chloroacetic Acid	SM6251B	Certified	
		Dibromoacetic Acid	SM6251B	Certified	
		Dichloroacetic Acid	SM6251B	Certified	
		Trichloroacetic Acid	SM6251B	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9951 CM	Microbac Laboratories, Inc. 100 Marshall Drive Warrendale, PA 15086 (724) 772-0610 Mark Matrozza				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9951 CM	Microbac Laboratories, Inc. 100 Marshall Drive Warrendale, PA 15086 (724) 772-0610 Mark Matrozza				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9926 M	Mid Atlantic Laboratories, Inc. 224 Main St., Suite 1 Port Royal, VA 22535 (804) 742-5577 Sylvia C. Storke				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00311 M	Morgantown Utility Board Robert B. Creel Water Treatment Facility 171 S. Don Knotts Boulevard Morgantown, WV 26505 (304) 296-4322 Greg Shellito				
	<i>Microbiology</i>				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9943 C	MWH Laboratories, A Division of MWH Americas, Inc. 750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 (626) 386-1100 Andrew Eaton, Ph.D.				
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	SM6251B	Certified	
		Chloroacetic Acid	SM6251B	Certified	
		Dibromoacetic Acid	SM6251B	Certified	
		Dichloroacetic Acid	SM6251B	Certified	
		Trichloroacetic Acid	SM6251B	Certified	
	Organics, THMs				
		Chloroform	524.2, 551.1	Certified	
		Bromodichloromethane	524.2, 551.1	Certified	
		Chlorodibromomethane	524.2, 551.1	Certified	
		Bromoform	524.2, 551.1	Certified	
		Total THMs	524.2, 551.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9943 C	MWH Laboratories, A Division of MWH Americas, Inc. 750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 (626) 386-1100 Andrew Eaton, Ph.D.				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9943 C	MWH Laboratories, A Division of MWH Americas, Inc. 750 Royal Oaks Drive, Suite 100 Monrovia, CA 91016-3629 (626) 386-1100 Andrew Eaton, Ph.D.				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8, SM3113B	Certified	
	Trace Metals Group II				
		Antimony	200.8, SM3113B	Certified	
		Arsenic	200.8, SM3113B	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.7, 200.8	Certified	
		Chromium	200.8, SM3113B	Certified	
		Mercury	200.8	Certified	
		Selenium	200.8, SM3113B	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	300.0	Certified	
	Inorganics Group II				
		Nitrite-N	300.0	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Organics, Pesticides Group I				
		Endrin	505	Certified	
		Heptachlor	505	Certified	
		Heptachlor Epoxide	505	Certified	
		Hexachlorobenzene	505	Certified	
		Hexachlorocyclopentadiene	505	Certified	
		Lindane	505	Certified	
		Methoxychlor	505	Certified	
		Chlordane	505	Certified	
		Toxaphene	505	Certified	
	Organics, Pesticides Group II				
		Alachlor	508.1	Certified	
		Atrazine	508.1	Certified	
		Simazine	508.1	Certified	
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	505	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Organics, Herbicides				
		2,4-D	515.2	Certified	
		2,4,5-TP (Silvex)	515.2	Certified	
		Dinoseb	515.2	Certified	
		Pentachlorophenol	515.2	Certified	
		Picloram	515.2	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9903 C	National Testing Laboratory, Ltd. 556 S. Mansfield Road Ypsilanti, MI 48197 (734) 483-8333 Jim Bahen				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Microbiology				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colisure
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colisure
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method
	Trace Metals Group I				
		Copper	200.7, 200.8, SM3111B	Certified	
		Lead	200.8, 200.9	Certified	
	Trace Metals Group II				
		Antimony	200.8, 200.9	Certified	
		Arsenic	200.8, 200.9	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.8, 200.9	Certified	
		Chromium	200.8, 200.9	Certified	
		Mercury	245.2	Certified	
		Selenium	200.8, 200.9	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	300.0	Certified	
	Inorganics Group II				
		Nitrite-N	300.0	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508	Certified	
		Hexachlorocyclopentadiene	508	Certified	
		Lindane	508	Certified	
		Methoxychlor	508	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	507	Certified	
		Atrazine	507	Certified	
		Simazine	507	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Organics, THMs				
		Chloroform	502.2, 524.2	Certified	
		Bromodichloromethane	502.2, 524.2	Certified	
		Chlorodibromomethane	502.2, 524.2	Certified	
		Bromoform	502.2, 524.2	Certified	
		Total THMs	502.2, 524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	Organics, VOCs Group I				
		Benzene	502.2, 524.2	Certified	
		Carbon Tetrachloride	502.2, 524.2	Certified	
		Chlorobenzene	502.2, 524.2	Certified	
		1,4-Dichlorobenzene	502.2, 524.2	Certified	
		1,2-Dichlorobenzene	502.2, 524.2	Certified	
		1,2-Dichloroethane	502.2, 524.2	Certified	
		1,1-Dichloroethylene	502.2, 524.2	Certified	
		cis-1,2-Dichloroethylene	502.2, 524.2	Certified	
		trans-1,2-Dichloroethylene	502.2, 524.2	Certified	
		Dichloromethane	502.2, 524.2	Certified	
		1,2-Dichloropropane	502.2, 524.2	Certified	
		Ethylbenzene	502.2, 524.2	Certified	
		Styrene	502.2, 524.2	Certified	
		Tetrachloroethylene	502.2, 524.2	Certified	
		1,2,4-Trichlorobenzene	502.2, 524.2	Certified	
		1,1,1-Trichloroethane	502.2, 524.2	Certified	
		1,1,2-Trichloroethane	502.2, 524.2	Certified	
		Trichloroethylene	502.2, 524.2	Certified	
		Toluene	502.2, 524.2	Certified	
		Xylenes (Total)	502.2, 524.2	Certified	
		Vinyl Chloride	502.2, 524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00412 CM	REI Consultants, Inc. 225 Industrial Park Road Beaver, WV 25813 1-304-255-2500 Claude Scott				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	<i>Organics, SOCs Group I</i>				
		Benzo(a)pyrene	550	Certified	
	<i>Organics, SOCs Group II</i>				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00354 CM	Reliance Laboratories, Inc. 10 Benedum Airport Industrial Park Bridgeport, WV 26330 (304) 842-5285 William Kirk, Jr.				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method
	Trace Metals Group I				
		Copper	200.7	Interim	
		Lead	SM3113B	Interim	
	Trace Metals Group II				
		Antimony	SM3113B	Interim	
		Arsenic	200.7	Interim	
		Barium	200.7	Interim	
		Beryllium	200.7	Interim	
		Cadmium	200.7	Interim	
		Chromium	200.7	Interim	
		Mercury	245.1	Interim	
		Selenium	SM3113B	Interim	
		Thallium	200.9	Interim	
	Inorganics Group I				
		Nitrate-N	300.0	Interim	
	Inorganics Group II				
		Nitrite-N	300.0	Interim	
	Inorganics Group III				
		Fluoride	300.0	Interim	

**Certification
Number****Laboratory Contact Information****Analyte Method****Status****Description**

00354 CM

Reliance Laboratories, Inc.
10 Benedum Airport Industrial Park
Bridgeport, WV 26330
(304) 842-5285
William Kirk, Jr.

Inorganics Group V

Cyanide, Free SM4500CN-F

Interim

Organics, VOCs Group I

Benzene	524.2	Interim
Carbon Tetrachloride	524.2	Interim
Chlorobenzene	524.2	Interim
1,4-Dichlorobenzene	524.2	Interim
1,2-Dichlorobenzene	524.2	Interim
1,2-Dichloroethane	524.2	Interim
1,1-Dichloroethylene	524.2	Interim
cis-1,2-Dichloroethylene	524.2	Interim
trans-1,2-Dichloroethylene	524.2	Interim
Dichloromethane	524.2	Interim
1,2-Dichloropropane	524.2	Interim
Ethylbenzene	524.2	Interim
Styrene	524.2	Interim
Tetrachloroethylene	524.2	Interim
1,2,4-Trichlorobenzene	524.2	Interim
1,1,1-Trichloroethane	524.2	Interim
1,1,2-Trichloroethane	524.2	Interim
Trichloroethylene	524.2	Interim
Toluene	524.2	Interim
Xylenes (Total)	524.2	Interim

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00443 M	Reliance Laboratories, Inc. 3790 Hedgesville Rd., Suite I Hedgesville, WV 25427 (304) 754-7360 William Kirk, Jr.				
	<i>Microbiology</i>				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	Trace Metals Group II				
		Mercury	245.2	Certified	
	Inorganics Group I				
		Nitrate-N	353.2	Certified	
	Inorganics Group II				
		Nitrite-N	353.2	Certified	
	Inorganics Group III				
		Fluoride	SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508	Certified	
		Hexachlorocyclopentadiene	508	Certified	
		Lindane	508	Certified	
		Methoxychlor	508	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	Organics, Pesticides Group II				
		Alachlor	505	Certified	
		Atrazine	505	Certified	
		Simazine	505	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00202 C	SGS Environmental Services, Inc. 1258 Greenbrier Street Charleston, WV 25311 (304) 346-0725 Paul P. Painter				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	<i>Organics, SOCs Group I</i>				
		Benzo(a)pyrene	550	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9941 M	Shenandoah Bacteriological Laboratory 434 Reynolds Road Cross Junction, VA 22625 (540) 888-4500 Greg Jones				
	Microbiology				
		Total Coliforms	SM9223B	Certified	Colilert
		Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9930 C	STL Sacramento 880 Riverside Parkway West Sacramento, CA 95605 (916) 374-4441 Eric Redman				
	<i>Organics, SOC's Group III</i>				
		2,3,7,8-TCDD (Dioxin)	525.2, 550.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8, 200.9	Certified	
	Trace Metals Group II				
		Antimony	200.8, 200.9	Certified	
		Arsenic	200.7, 200.8, 200.9	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.7, 200.8	Certified	
		Chromium	200.7, 200.8	Certified	
		Mercury	200.8, 245.1	Certified	
		Selenium	200.8, 200.9	Certified	
		Thallium	200.8, 200.9	Certified	
	Inorganics Group I				
		Nitrate-N	300.0, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	300.0, 353.2	Certified	
	Inorganics Group III				
		Fluoride	300.0, SM4500F-C	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4, SM4500CN-E	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Organics, Pesticides Group I				
		Endrin	508, 525.2	Certified	
		Heptachlor	508, 525.2	Certified	
		Heptachlor Epoxide	508, 525.2	Certified	
		Hexachlorobenzene	525.2	Certified	
		Hexachlorocyclopentadiene	525.2	Certified	
		Lindane	508, 525.2	Certified	
		Methoxychlor	508, 525.2	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	525.2	Certified	
		Atrazine	525.2	Certified	
		Simazine	525.2	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	<i>Organics, VOCs Group I</i>				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9950 C	STL Savannah 5102 La Roche Avenue Savannah, GA 31404 (912) 354-7858 Benjamin Gulizia				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	<i>Organics, SOCs Group I</i>				
		Benzo(a)pyrene	525.2	Certified	
	<i>Organics, SOCs Group II</i>				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

**Certification
Number**

Laboratory Contact Information

Analyte Method

Status

Description

00172 CM

Sturm Environmental Services
Brushy Fork Road
Bridgeport, WV 26330
(304) 623-6549
Susan Hickman

Microbiology

Total Coliforms	SM9223B	Certified	Colilert
Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert
Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	<i>Trace Metals Group I</i>				
		Copper	200.7	Certified	
		Lead	200.9	Certified	
	<i>Trace Metals Group II</i>				
		Antimony	200.9	Certified	
		Arsenic	200.9	Certified	
		Barium	200.7	Certified	
		Beryllium	200.7	Certified	
		Cadmium	200.9	Certified	
		Chromium	200.9	Certified	
		Mercury	245.1	Certified	
		Selenium	200.9	Certified	
		Thallium	200.9	Certified	
	<i>Inorganics Group I</i>				
		Nitrate-N	300.0, 353.2	Certified	
	<i>Inorganics Group II</i>				
		Nitrite-N	300.0, SM4500NO2-B	Certified	
	<i>Inorganics Group III</i>				
		Fluoride	300.0	Certified	
	<i>Inorganics Group V</i>				
		Cyanide, Total	SM4500CN-E	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, Pesticides Group I				
		Endrin	508	Certified	
		Heptachlor	508	Certified	
		Heptachlor Epoxide	508	Certified	
		Hexachlorobenzene	508	Certified	
		Hexachlorocyclopentadiene	508	Certified	
		Lindane	508	Certified	
		Methoxychlor	508	Certified	
		Chlordane	508	Certified	
		Toxaphene	508	Certified	
	Organics, Pesticides Group II				
		Alachlor	507	Certified	
		Atrazine	507	Certified	
		Simazine	507	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	Organics, Pesticides Group IV				
		PCBs (As Aroclors)	508	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.1	Certified	
		2,4,5-TP (Silvex)	515.1	Certified	
		Dalapon	515.1	Certified	
		Dinoseb	515.1	Certified	
		Pentachlorophenol	515.1	Certified	
		Picloram	515.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9944 C	Test America Analytical Testing Corp. - Orlando Division 4310 East Anderson Road Orlando, FL 32812 1-407-851-2560 Keith Blanchard				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	<i>Organics, SOCs Group I</i>				
		Benzo(a)pyrene	525.2, 550.1	Certified	
	<i>Organics, SOCs Group II</i>				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00353 M	TraDet RD 2, Box 227A, Battle Run Road Triadelphia, WV 26059 (304) 547-9094 Richard Whitt				
	<i>Microbiology</i>				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	Trace Metals Group I				
		Copper	200.8	Certified	
		Lead	200.8	Certified	
	Trace Metals Group II				
		Antimony	200.8	Certified	
		Arsenic	200.8	Certified	
		Barium	200.8	Certified	
		Beryllium	200.8	Certified	
		Cadmium	200.8	Certified	
		Chromium	200.8	Certified	
		Mercury	200.8	Certified	
		Selenium	200.8	Certified	
		Thallium	200.8	Certified	
	Inorganics Group II				
		Nitrite-N	300.0	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	
	Organics, Pesticides Group III				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	Organics, Herbicides				
		2,4-D	515.3	Certified	
		2,4,5-TP (Silvex)	515.3	Certified	
		Dalapon	515.3	Certified	
		Dinoseb	515.3	Certified	
		Pentachlorophenol	515.3	Certified	
		Picloram	515.3	Certified	
	Organics, THMs				
		Chloroform	524.2	Certified	
		Bromodichloromethane	524.2	Certified	
		Chlorodibromomethane	524.2	Certified	
		Bromoform	524.2	Certified	
		Total THMs	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9938 C	U.S. Army Center for Health Promotion and Preventive Medicine 5158 Blackhawk Road Aberdeen Proving Ground, MD 21014 (410) 436-8399 Col. James S. Little				
	<i>Organics, VOCs Group II</i>				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	<i>Organics, SOCs Group I</i>				
		Benzo(a)pyrene	525.2	Certified	
	<i>Organics, SOCs Group II</i>				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Trace Metals Group I				
		Copper	200.7, 200.8	Certified	
		Lead	200.8	Certified	
	Trace Metals Group II				
		Antimony	200.8	Certified	
		Arsenic	200.8	Certified	
		Barium	200.7, 200.8	Certified	
		Beryllium	200.7, 200.8	Certified	
		Cadmium	200.7, 200.8	Certified	
		Chromium	200.7, 200.8	Certified	
		Mercury	245.1	Certified	
		Selenium	200.8	Certified	
		Thallium	200.8	Certified	
	Inorganics Group I				
		Nitrate-N	300.0, 353.2	Certified	
	Inorganics Group II				
		Nitrite-N	353.2	Certified	
	Inorganics Group III				
		Fluoride	Technicon 380-75WE	Certified	
	Inorganics Group V				
		Cyanide, Total	335.4	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	<i>Organics, Pesticides Group I</i>				
		Endrin	525.2	Certified	
		Heptachlor	525.2	Certified	
		Heptachlor Epoxide	525.2	Certified	
		Hexachlorobenzene	525.2	Certified	
		Hexachlorocyclopentadiene	525.2	Certified	
		Lindane	525.2	Certified	
		Methoxychlor	525.2	Certified	
		Chlordane	505	Certified	
		Toxaphene	505	Certified	
	<i>Organics, Pesticides Group II</i>				
		Alachlor	525.2	Certified	
		Atrazine	525.2	Certified	
		Simazine	525.2	Certified	
	<i>Organics, Pesticides Group III</i>				
		Aldicarb	531.1	Certified	
		Aldicarb Sulfone	531.1	Certified	
		Aldicarb Sulfoxide	531.1	Certified	
		Carbofuran	531.1	Certified	
		Oxamyl (Vydate)	531.1	Certified	
	<i>Organics, Pesticides Group IV</i>				
		PCBs (As Aroclors)	505	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Organics, Pesticides Group V				
		Diquat	549.2	Certified	
	Organics, Pesticides Group VI				
		Endothall	548.1	Certified	
	Organics, Pesticides Group VII				
		Glyphosate	547	Certified	
	Organics, Haloacetic Acids (HAA5)				
		Bromoacetic Acid	552.2	Certified	
		Chloroacetic Acid	552.2	Certified	
		Dibromoacetic Acid	552.2	Certified	
		Dichloroacetic Acid	552.2	Certified	
		Trichloroacetic Acid	552.2	Certified	
	Organics, Herbicides				
		2,4-D	515.3	Certified	
		2,4,5-TP (Silvex)	515.3	Certified	
		Dalapon	515.3	Certified	
		Dinoseb	515.3	Certified	
		Pentachlorophenol	515.3	Certified	
		Picloram	515.3	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	<i>Organics, THMs</i>				
		Chloroform	524.2, 551.1	Certified	
		Bromodichloromethane	524.2, 551.1	Certified	
		Chlorodibromomethane	524.2, 551.1	Certified	
		Bromoform	524.2, 551.1	Certified	
		Total THMs	524.2, 551.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Organics, VOCs Group I				
		Benzene	524.2	Certified	
		Carbon Tetrachloride	524.2	Certified	
		Chlorobenzene	524.2	Certified	
		1,4-Dichlorobenzene	524.2	Certified	
		1,2-Dichlorobenzene	524.2	Certified	
		1,2-Dichloroethane	524.2	Certified	
		1,1-Dichloroethylene	524.2	Certified	
		cis-1,2-Dichloroethylene	524.2	Certified	
		trans-1,2-Dichloroethylene	524.2	Certified	
		Dichloromethane	524.2	Certified	
		1,2-Dichloropropane	524.2	Certified	
		Ethylbenzene	524.2	Certified	
		Styrene	524.2	Certified	
		Tetrachloroethylene	524.2	Certified	
		1,2,4-Trichlorobenzene	524.2	Certified	
		1,1,1-Trichloroethane	524.2	Certified	
		1,1,2-Trichloroethane	524.2	Certified	
		Trichloroethylene	524.2	Certified	
		Toluene	524.2	Certified	
		Xylenes (Total)	524.2	Certified	
		Vinyl Chloride	524.2	Certified	

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
9927 C	Underwriters Laboratories, Inc. 110 South Hills Street South Bend, IN 46617 (574) 472-5523 Ed George				
	Organics, VOCs Group II				
		Ethylene dibromide (EDB)	504.1	Certified	
		Dibromochloropropane (DBCP)	504.1	Certified	
	Organics, SOCs Group I				
		Benzo(a)pyrene	525.2	Certified	
	Organics, SOCs Group II				
		Di(2-ethylhexyl)adipate	525.2	Certified	
		Di(2-ethylhexyl)phthalate	525.2	Certified	
	Organics, SOCs Group III				
		2,3,7,8-TCDD (Dioxin)	525.2, 550.1	Certified	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00541 M	Water Environmental Testing Corner of Route 14 and Blair Avenue Mineral Wells, WV 26150 (304) 489-1060 James C. Wright				
	<i>Microbiology</i>				
		Total Coliforms	m-ColiBlue24, SM9223B	Certified	m-ColiBlue24, Colilert
		Fecal Coliforms/E. Coli	m-ColiBlue24, SM9223B	Certified	m-ColiBlue24, Colilert
		Fecal Coliforms/E. Coli	SM9222D	Certified	M-FC Medium (Source Water)
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00051 M	Weirton Water Treatment Plant 3031 Birch Drive Weirton, WV 26062 (304) 797-8529 Scott Klar				
	Microbiology				
		Total Coliforms	SM9221B, SM9222B	Certified	Multi Tube Fermentation, Membrane Filter
		Fecal Coliforms/E. Coli	SM9221E	Certified	EC Medium
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00005 M	West Virginia Department of Health District Environmental Laboratory 1948 Wiltshire Road, Suite #7 Kearneysville, WV 25430 (304) 725-5832 Brenda Wood				
	<i>Microbiology</i>				
		Total Coliforms	SM9221B, SM9222B, SM9223B	Certified	Multi Tube Fermentation, Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

Certification Number	Laboratory Contact Information	Analyte	Method	Status	Description
00003 C	West Virginia Department of Health Office of Laboratory Services Environmental Chemistry Section 4710 Chimney Drive, Suite G Charleston, WV 25302 (304) 965-2694 Andrea Labik, Sc.D.				
	Trace Metals Group I				
		Copper	SM3113B	Certified	
		Lead	SM3113B	Certified	
	Trace Metals Group II				
		Antimony	SM3113B	Certified	
		Arsenic	SM3113B	Certified	
		Barium	200.7	Certified	
		Beryllium	SM3113B	Certified	
		Cadmium	SM3113B	Certified	
		Chromium	SM3113B	Certified	
		Mercury	245.1	Certified	
		Selenium	SM3113B	Certified	
		Thallium	200.9	Certified	
	Inorganics Group I				
		Nitrate-N	353.2	Certified	
	Inorganics Group II				
		Nitrite-N	353.2	Certified	
	Inorganics Group III				
		Fluoride	300.0	Certified	
	Inorganics Group V				
		Cyanide, Total	SM4500CN-F	Approved	

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00003 M	West Virginia Department of Health Office of Laboratory Services Environmental Microbiology Section 167 - 11th Avenue South Charleston, WV 25302 (304) 558-3530 Andrea Labik, Sc.D.				
	Microbiology				
		Total Coliforms	SM9221B, SM9222B, SM9223B	Certified	Multi Tube Fermentation, Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00351 CM	Wheeling Water Treatment Plant 1305 Richland Avenue Wheeling, WV 26003 (304) 234-3835 Philip Kowalski				
	Microbiology				
		Total Coliforms	SM9221B, SM9223B	Certified	Multi Tube Fermentation, Colilert
		Fecal Coliforms/E. Coli	SM9221E, SM9223B	Certified	EC Medium, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00282 M	WVAWC - Bluefield RR 2, Box 425 A Bluefield, WV 24701 (304) 327-8913 David L. Thomas				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00446 M	WVAWC - Bluestone 227 Edwards Road True, WV 25988 (304) 466-5050 David L. Thomas				
	<i>Microbiology</i>				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00061 M	WVAWC - Huntington 24th Street and Ohio River Road Huntington, WV 25703 (304) 525-8193 Sandra Johnson				
	<i>Microbiology</i>				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221F, SM9223B	Certified	EC Medium+MUG, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00201 CM	WVAWC - Kanawha Valley Court and Dryden Streets Charleston, WV 25301 (304) 340-2037 Dave Peters				
	Microbiology				
		Total Coliforms	SM9222B, SM9223B	Certified	Membrane Filter, Colilert
		Fecal Coliforms/E. Coli	SM9221F, SM9223B	Certified	EC Medium+MUG, Colilert
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00102 M	WVAWC - New River Plant 300 Bachman Road Beckwith, WV 25840 (304) 574-4075 Marshall Murray				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

<i>Certification Number</i>	<i>Laboratory Contact Information</i>	<i>Analyte</i>	<i>Method</i>	<i>Status</i>	<i>Description</i>
00211 M	WVAWC - Weston 1243 US Highway 19 South Weston, WV 26452-8207 (304) 269-4272 Billie Suder				
	Microbiology				
		Total Coliforms	SM9222B	Certified	Membrane Filter
		Fecal Coliforms/E. Coli	SM9221F	Certified	EC Medium+MUG
		Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method



Tom Ong
<tomong@wvdhhr.org>
03/17/2005 03:15 PM

To: Joe Slayton/ESC/R3/USEPA/US@EPA, Alan Marchun
<amarchun@wvdhhr.org>, Andrea Labik <andrealabik@wvdhhr.org>,
Barb Taylor <barbtaylor@wvdhhr.org>, Barbara Napier
cc:
Subject: Updated Certified Lab List for Drinking Water

The following changes have been made effective 3-15-2005:

Reliance Analytical in Bridgeport:

Added THM's as Interim
Added Vinyl Chloride as Interim

Microbac in Pittsburgh:

Added Nitrate by SM4500NO3D/F
Added Nitrite by SM4500NO3F
Added Total THM's

National Testing Laboratory

Added Dalapon

Lancaster Labs

Deleted Lead, Antimony, Selenium, Thallium by Method 200.9
Added Endrin, Lindane, Hepatachlor, Heptachlorepoxyde,
Hexachlorobenzene, Hexachlorocyclopentadien and Methoxychlor by 508

Alachlor, Atrazine and Simazine by 507

Di(2-ethylhexyl)adipate by 525.2

Wheeling Water Treatment Plant

Added THM's

Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer
Laboratory Evaluation Officer
WVDHHR - BPH
Office of Laboratory Services
167 - 11th Avenue
South Charleston, WV 25303
Phone: 304-558-3530, Ext. 2710
email: tomong@wvdhhr.org



WQL_Rev_3-15-2005.pdf

Region 3 SDWA Laboratory Certification Review Questionnaire 2005:

Completed by: Larry A. Duffield

Title: Program Manager I

Date:

Phone: 1-304-965-2694 X 2222

Fax: 1-304-965-2696

E-Mail: larryduffield@wvdhhr.org

Organization/Address: WVDHHR Bureau for Public Health
Office of Laboratory Services
Environmental Chemistry Laboratory
4710 Chimney Drive, Suite G
Charleston, WV 25302

1. While the Laboratory Certification Manual represents guidance from the US EPA, does your State have the manual in State laws?

Yes

If so what is the reference?

The reference is found in §64-3-13.2.a. of the State Code.

2. How does your State Lab Cert program (except PA—our R3 NELAC AA) handle NELAC accredited SDWA labs (in State and out-of-State via reciprocity)? *None of our in-State labs are NELAC accredited.*

We observe reciprocity protocols in certifying out-of-State NELAC accredited laboratories, while reserving the right to conduct on-site audits at our discretion if warranted.

What kind of documentation is requested from the lab?

For new applications, we require a copy of their current valid certificate with scope of accreditation, a copy of their most recent on-site audit, and copies of their last 3 years of Proficiency Testing results.

3. Provide a listing of all Microbiology laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection. **Include the total number of these labs (# in-State, # Out-of-State).**

4. Provide a listing of all Chemistry laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection. **Include the total number of these labs (# in-State, # Out-of-State).**

IN STATE LABORATORIES		On-site Date	Projected Date
Analabs, Inc.	196 Dayton Street Crab Orchard WV 25827	11/16/04	Nov 2007
SGS Environmental Services, Inc.	1258 Greenbrier Street Charleston WV 25311	8/12/03 8/13/03	Aug 2006
REI Consultants, Inc.	225 Industrial Park Road Beaver WV 25813	7/29/03 7/30/03	Aug 2006
Reliance Laboratories, Inc.	10 Benedum Airport Industrial Park Bridgeport WV 26330	9/23/03 9/24/03	Aug 2005
Wheeling Water Treatment Plant	1305 Richland Avenue Wheeling WV 26003	9/26/01	July 2005
		TOTAL	5

OUT OF STATE LABORATORIES		
American Water Works Service Co.	1115 South Illinois Street Belleville IL 62220-3102	Certified by Home State
Aqua Tech Environmental Laboratories	1776 Marion-Waldo Road Marion OH 43302	Certified by Home State
Aqua Tech Environmental Laboratories	6878 South State Route 100 Melmore OH 44845	Certified by Home State
Eno River Labs, LLC	2445 S. Alston Avenue Durham NC 27713-1301	Certified by Home State
Environmental Engineering and Technology, Inc.	712 Gum Rock Court Newport Mews VA 23606	Certified by Home State
Underwriters Laboratories, Inc.	110 South Hills Street South Bend IN 46617	Certified by Home State
Pace Analytical Services, Inc.	1700 Elm Street Suite 200 Minneapolis, MN 55414	Certified by Florida / NELAP
Lancaster Laboratories A Division of Thermo Analytical	2425 New Holland Pike Lancaster PA 17601-5994	Certified by Home State
Microbac Laboratories	100 Marshall Drive Warrendale PA 15086	Certified by Home State
MWH Laboratories, A Division of MWH America, Inc.	750 Royal Oaks Drive, Suite 100 Monrovia CA 91016-3629	Certified by Home State
National Testing Laboratory, LTD.	556 S. Mansfield Road Ypsilanti MI 48197	Certified by Home State
STL Sacramento	880 Riverside Parkway West Sacramento CA 95605	Certified by Home State
STL Savannah	5102 La Roche Avenue Savannah GA 31404	Certified by Home State
TestAmerica, Inc.	4310 East Anderson Road Orlando FL 32812	Certified by Home State

US Army Center of Health Promotion and Preventive Medicine	5158 Blackhawk Road Aberdeen Proving Ground MD 21010-5403	Certified by Home State
	TOTAL	15

5. Provide a listing of all Rad Chemistry laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection. **Include the total number of these labs (# in-State, # Out-of-State).**

Please see attached information provided by Dan Hill of our OEHS Radiological Health Program.

6. Does your State have the resources to carry out the certification program properly (on-sites, PT tracking, certification tracking, issuance of certifications)?

Yes. We perform on-site audits. We track PTs and certification, and we issue a certificate with the state seal and signatures along with parameter sheets detailing what primary regulated analytes by which methods the laboratory is certified for.

What are the major bottlenecks/problems/shortfalls?

Same as last year: Staffing, experience, and funding. While Larry Duffield is certified for Organic and Inorganic Chemistry and Greg Young is certified for Inorganics, neither Larry Duffield nor Greg Young have practical experience with Organic instrumental analysis. This problem affects mostly our ability to perform on-site audits. We have recently hired a new chemist, Patrick Marchio, who has experience in GC-MS methods and should help in this area in the future; however, he is not yet certified. Patrick is currently working in our metals lab. Jack Marchio is a contracted consultant with many years of experience in organic chemistry and instrumentation and may be available as a "third party auditor". He does not, however, have experience or training in the approved methods or program regulations and is not certified.

Another related problem is the fact we have not had a functioning Organics lab for many years. We feel this is detrimental to our certification program in that we do not have ready access to the instruments to practice and be proficient with the methods that are used by private labs.

Our Organics lab was closed years ago ostensibly due to "lack of funding". Our lab and consequently our certification program have suffered. We are also, therefore, currently not able to provide all of the Chemistry testing mandated of a Principle State Laboratory in order for West Virginia to retain Primacy over its drinking water program. To our knowledge, Office of Laboratory Services(OLS), does not and has not received any funding from EPA grant programs and relies solely on general revenue funds and the small amount we receive from the fees we charge which is totally inadequate to purchase needed new equipment and/or pay for another chemist position for an organics lab.

7. EPA requires laboratories to pass a PT for each contaminant by each method, each year for which they are seeking certification. Who in your State keeps the PT data for the private laboratories?

Larry Duffield is responsible for Chemistry PT data. Tom Ong is responsible for Microbiological PT data.

Are they checking to be sure the private laboratories pass a PT for contaminants by each method each year for which they are seeking certification?

Yes, with assistance from respective staffs.

How does your State track the PT performance of laboratories?

For Chemistry, laboratories must satisfy Proficiency Testing requirements by demonstrating satisfactory performance for each parameter, by each method, for which they wish to be certified, by September 30 of each year. A proficiency testing tracking spreadsheet is maintained electronically and is used to track the yearly PT results for each certified laboratory, which is reviewed during the year.

Is there an electronic database?

No. The data is entered manually into an Excel spreadsheet and stored electronically on a shared drive and as hard copy in the individual laboratory's binder.

8. Does your program approve labs for TOC and SUVA analyses?

Our Chemistry certification program does not presently certify or approve for TOC or SUVA.

Is there a formal approval or just accepting data from anyone who submits it?

There is no formal approval process, no certificate or letter issued. OEHS-Environmental Engineering Division has been accepting data from any laboratory certified for other regulated primary contaminants and from any water plant that has been inspected by District Engineers for sanitary surveys.

9. List your State's SDWA Certification Officers and their education and related experience, e.g., completion of SDWA CO's course (please highlight new COs within the last year and include their assessment responsibilities).

Larry Duffield, BS in Biology, Program Manager I, Chief Certification Officer for Chemistry

Certified for Inorganic Chemistry since 2000

Certified for Organic Chemistry since 2002

Approximately 18 years experience in the SDWA analyses of metals and inorganic non-metals

Has been serving as supervisor for the laboratory and the chemistry certification program for over 1 year

Gregory Young, BS in Chemistry, Chemist II, Certification Officer for Chemistry

Certified for Inorganic Chemistry since 2003

Approximately 6 years experience in the SDWA analyses of inorganic non-metals and metals

10. List training provided to SDWA Certification Officers in the last year.

None. Funding was not available for travel.

11. List training provided by State to SDWA certification community in the last year?

None.

12. Provide an organizational structure of the State's Lab Certification Program and indicate to what program element/s it reports.

The Lab Certification Program reports to the OEHS Drinking Water Program.

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WEST VIRGINIA BUREAU FOR PUBLIC HEALTH
OFFICE OF LABORATORY SERVICES
CERTIFICATION PROGRAM FOR DRINKING WATER

ANDREA M. LABIK, Sc.D.
LABORATORY DIRECTOR

CHARLOTTE BILLINGSLEY
ASSOCIATE DIRECTOR
(PART TIME)

ENVIRONMENTAL CHEMISTRY SECTION
LARRY A. DUFFIELD
CHIEF CERTIFICATION OFFICER

ENVIRONMENTAL MICROBIOLOGY
SECTION
TOM ONG
CHIEF CERTIFICATION OFFICER

GREG YOUNG
CERTIFICATION
OFFICER

TRACIE GOODSON
CERTIFICATION
OFFICER

MICHAEL FLESHER
CERTIFICATION
OFFICER

Jack Marchio
Third Party Auditor
(Not Certified)

PROJECT # NAME: _____
REVISION NO: _____
DATE: _____
PAGE: _____ OF _____

13. Provide a description of the certification procedures including downgrading criteria and process. (Note: if your State follows the Lab Cert Manual indicated revision and section/page number). Please indicate if you have written Quality Manuals/SOPs for your lab certification program and provide their titles.

The certification program currently follows the procedures given in the EPA's Manual for the Certification of Laboratories Analyzing Drinking Water, Fifth Edition, January 2005, Chapter III, pages 1 through 10.

Quality Manual: WV DHHR Office of Laboratory Services
Manual of Quality Assurance
Environmental Chemistry Laboratory

Certification SOP: Office of Laboratory Services
Environmental Chemistry
Standard Operating Procedure
EPA/SDWA Laboratory Certification

14. List any certification downgrading or upgrading actions in the last year with reasons for those actions.

Wheeling Water Treatment Plant: Downgraded to "Not Certified" for THMs in December 2004 for failure to pass annual PT and for submitting an unacceptable Corrective Action Report.

Upgraded to "Interim" for THMs in March 2005 after passing PT and executing a successful plan of correction. Status shall remain at "Interim" until after the on-site audit scheduled for July of this year.

Analabs, Inc.: Downgraded to "Provisionally Certified" for all chemistry parameters in May 2005 for failure to submit a Corrective Action Report (CAR) within 30 days of their receipt of the On-site audit report. They will remain "Provisionally Certified" for 90 days during which time they must still submit an acceptable CAR and address and correct all deviations listed. A follow-up on-site audit may be required before any Upgrading is given.

Lancaster Laboratories: Downgraded to "Not Certified" for Pb, Sb, Se, Tl by EPA 200.9 in March 2005 due to lack of certification in their home state.

15. List topics you would like on the next Region 3 SDWA CO's Meeting Agenda or for the national LabCert bulletin.

Discrete Analyzers for Nitrate.

Will September 2005 work for a R3's CO's Meeting?

Yes.

16. Provide example inspection reports for the last year, i.e., microbiology report; chemistry report; rad chemistry (VA; PA; MD).

See attachment for Analabs report for chemistry.

17. Provide example corrective action reports from labs (correspond to report/s in #14).

See attachment for Analabs CAR.

18. Provide example SDWA certificates or updates to certificates issued (correspond to report/s in #14).

See attachment for Analabs updated certificate.

8 8 8 8 8

LABORATORY EVALUATION REPORT (SDWA)

ANALABS, INC.
196 DAYTON STREET
CRAB ORCHARD, WEST VIRGINIA 25827

ON-SITE SURVEY CONDUCTED

NOVEMBER 16, 2004

BY

LARRY A. DUFFIELD
GREGORY W. YOUNG

WEST VIRGINIA BUREAU FOR PUBLIC HEALTH
OFFICE OF LABORATORY SERVICES
ENVIRONMENTAL CHEMISTRY SECTION
4710 CHIMNEY DRIVE SUITE G
CHARLESTON, WEST VIRGINIA 25302

I. GENERAL FINDINGS

A. Introduction:

On November 16, 2004 an on-site inspection of the inorganic chemistry laboratories of Analabs, Inc. was conducted. The laboratory is located at 196 Dayton Street, Crab Orchard, W.V. 25827. The purpose of this inspection was to determine the capability of the laboratory to perform its mission as it relates to the Safe Drinking Water Act (SDWA). The personnel primarily interviewed and who represented the laboratory were Annissa Reiger, Laboratory Manager; and Katie Cole, Laboratory Supervisor.

The inspection was conducted by Larry Duffield, Chief Certification Officer (evaluation of metals analyses), and Gregory Young, Inorganic Certification Officer (evaluation of inorganic, non-metals analyses); West Virginia Bureau for Public Health, OLS, Environmental Chemistry Laboratory Section, 4710 Chimney Drive, Suite G, Charleston, West Virginia 25302.

B. Personnel:

The courtesy, helpfulness, and professionalism of the laboratory personnel were greatly appreciated by the inspection team.

C. Quality Assurance Plan:

All laboratories that are certified to analyze drinking water must have an established quality assurance plan to ensure all data generated by the laboratory is scientifically valid, defensible in court, and meets precision and accuracy requirements. The QA plan developed by Analabs, Inc. has briefly covered some of the topics listed in the Manual for the Certification of Laboratories Analyzing Drinking Water (CLADW), however, the QA plan appears to be written to follow the West Virginia Department of Natural Resources requirements.

The minimum items that must be addressed in the plan are listed in Chapter 3, page 4 of the Manual for the Certification of Laboratories Analyzing Drinking Water 4th Edition. The QA plan should be written to monitor and evaluate the laboratory's overall quality of the total testing process, which includes pre-analytical, analytical, and post-analytical process. The QA plan established by the laboratory does need a major revision to address all the items listed in the certification manual. Depending on how detailed the standard operating procedures are, the QA plan may reference them in the appropriate sections.

Due to the time required in updating the QA plan, an outline that briefly discusses the topics of each section must be submitted within 30 days, and the completed quality assurance plan must be forwarded to the Certification Officer 3 months after submitting the Corrective Action Report (CAR) for this audit.

D. Analytical Method References:

(SM) Standard Methods for the Examination of Water and Wastewater, 18th Edition.

(EPA) Methods for the Determination of Metals in Environmental Samples, Supplement I, May 1994, EPA/600/R-94/111.

(CLADW) Manual for the Certification of Laboratories Analyzing Drinking Water, March 1997, EPA 815-B-97-001.

(EPA) Guidance for Preparing Standard Operating Procedures, March 2001, EPA/240/B-01/004.

II. METALS FINDINGS

Surveyed by Larry Duffield, Chief Certification Officer

A. ANALYTICAL AND METHOD REPORTS

1. Proficiency Testing (PT)

(a.) For year 2002: PT data was submitted in May from a WP study supplied by Applied Products Group (APG) instead of a WS Study as is required for drinking water certification, but was apparently accepted by the Chief Certification Officer at the time, Wayne Morganroth. Barium and Chromium were done by unapproved, withdrawn methods, and as a consequence these two analytes were downgraded to "Not Certified" for 2003.

(b.) For year 2003: PT data was submitted in March from an APG WS Study. All regulated metals were "acceptable" with approved methods listed. Due to successful recovery for Chromium, certification was upgraded to "Interim" for 2004. Barium remained "Not Certified" because of their lack of an on-site audit for the method requested, SM 3111D.

(c.) For year 2004: PT data was submitted in May from an APG WS Study #4103. All regulated primary metals were "acceptable" except for Beryllium by EPA 200.9. A Corrective Action Plan (CAR) was submitted in June for this failed parameter and a successful WS was submitted in July.

(d.) On-site findings: Raw data to support the year 2004 reported results for the PTs for Antimony by EPA 200.8, Arsenic by EPA 200.8, Barium by SM3111D, Beryllium by EPA 200.9, Cadmium by EPA 200.8, Mercury by EPA 200.8, Selenium by EPA 200.9 could not be produced for review during the on-site audit, therefore, the PT results for these analytes by these methods are judged invalid for certification.

2. EPA Method 200.9 (Revision 2.2, 1994)

(a.) SOP Deviations

(1.) The Sample Preparation procedure states that a "reagent blank consisting of deionized water and all QC should be prepared with each batch of samples." These instructions

are not clear or detailed enough to cover the preparation of the Laboratory Reagent Blank LRB) or the Laboratory Fortified Blank (LFB).

- (2.) The concentration of each analyte for LFB fortification must be listed, but are not.
- (3.) Preparation of sample for "Direct Analysis", after turbidity screening, is not discussed (see section 11.2.1 of method).
- (4.) The evaporation phase temperature of the digestion process is 95°C versus the 85°C mandated in the method (see section 11.2.3). The digestion procedure as described produces a sample that is diluted 2.5x without detailing any reason for this. The procedure in 11.2 of the method produces a sample that is concentrated 2x. Samples must not be pre-diluted prior to a primary analysis.
- (5.) While the SOP addresses screening for Direct Analysis (DA) by measuring Turbidity, it does not mention that samples that are run without digesting must still be fortified to 1% HNO₃ concentration matrix and the subsequent dilution must be accounted for in the final calculation. This is covered in 11.2.1 in the method which was copied and stapled to the back of the SOP. It was found during the on-site that fortication of "DA" samples was not being practiced.
- (6.) Alternant gas mixture (hydrogen 5%-argon 95%) is necessary for use of this method and is covered in 6.1.4 of the method which was stapled to the SOP. This was not being done and personnel seemed unaware of the requirement.
- (7.) Section VI QA/QC (3.) apparently alludes to the required IPC in 9.3.4 of the method. However, it does not state that it is to be analyzed immediately after calibration and that the limits for this primary IPC are ±5%. It is to be immediately followed by a blank of the same matrix as the calibration blank with limits observed <IDL but >-IDL. Subsequent continuing IPC limits are ±10%. The SOP states a limit of 20% which is unacceptable. The corrective actions for failed IPCs in 9.3.4 should be followed and documented. The QCS cannot be substituted for the primary IPC.

(8.) The only matrix modifier allowed by this method is palladium + magnesium nitrate with hydrogen (5%) – argon (95%) gas mixture. A table written by Perkin-Elmer was included in the SOP that lists other modifier chemical mixtures that were seen to be in use at the time of inspection.

(9.) The SOP has no signature page.

(b.) Method EPA 200.9 other deviations

(1.) A continuum background corrector (Deuterium or D₂) is being used for this method. D₂ systems have wavelength range limitations that prevent them from providing correction above 350nm. Refer to SM 3113B (4)(b.) 18th Edition. However, EPA 200.9 requires the use of background correction. Refer to 2.2 in 200.9. For this reason your laboratory may not use this method with the present equipment to analyze Chromium at wavelength of 357.9. Also, D₂ systems can only correct for background absorbance levels up to 0.8 for any metal. While the EPA 200.9 method allows that test results for samples are reliable only with background absorbance <1.0, your background limit should be 0.8 and stated as so in the SOP.

(2.) Proficiency Test (PTs) samples are not being treated like compliance monitoring samples. PTs are not being logged in and given a number. PTs are not being screened for Direct Analysis with turbidity analysis and are not being digested either. Labeling on the instrument data report is insufficient; PTs are simply labeled as "DW". Multiple duplicates (6) are being averaged and reported up to 4 significant figures. If multiple duplicates are to be averaged for the PT (which is not a requirement of this method) then all compliance monitoring samples will have to be analyzed the same number of times and this routine must be explained in the SOP. Metals in general should be reported to 3 significant figures.

(3.) Instrument Data reports did not have the name of the operator or initials.

(4.) For the Quality Control Sample on raw data reports, there was no % recovery calculated and no "true value" concentration was stated.

(5.) PT data reports were reviewed that did not have Instrument Performance Checks (IPC), or Quality Control Blanks that would follow the IPC.

(6.) Reporting Limit Verifications are not being analyzed. This is an LFB fortified at the minimum reporting limit for each analyte and should be analyzed with each batch run, and detailed in the SOP.

(7.) Lab Fortified Blanks are not being routinely analyzed.

(8.) Lab Reagent Blanks are not being prepared properly. Since plastic sample bottles are being used for compliance monitoring sampling, one or more bottles from each shipment or case should be randomly pulled, filled with ASTM Type I reagent water, acidified for preservation, allowed to sit for 16 hours, and subsequently analyzed either by Direct Analysis after HNO_3 fortification to 1%, or analyzed after processing through the method digestion procedure. A "lot" of sample bottles can only be deemed "metals free" if tested in this manner.

(9.) The computer for the AA used for this method is not Y2K compliant and prints the wrong year in the date line.

(10.) Acids being used are reagent grade, not high-purity or trace metal grade as required.

(11.) Argon that is being used is not high purity as required.

(12.) A Millipore deionizing system was in use to produce reagent grade water. However, the conductivity meter was insufficient to determine if quality of product meets ASTM Type I requirement of this method ($> 16/6$ megohms/or < 0.06 micromhos/cm). Purity was not being documented on daily basis.

(13.) Initial Demonstration of Performance

(i) Linear Dynamic Range – has not been determined for any analyte.

(ii) Instrument Detection Limit has not been determined for any analyte.

- (iii) MDL studies have been done but were analyzed only one day, instead of three, and at only one concentration. Fortified levels were not based on IDL determinations. MDLs are not being determined annually as required.
- (iv.) Initial Demonstration of Capability (IDC) for precision and accuracy has not been determined. Four replicates of known concentration from a source different from the calibration standards must be prepared according to the method for Direct Analysis or digested just like compliance samples. The 4 replicates are then analyzed by each analyst for each analyte on each instrument. Results must meet precision and accuracy criteria established by the laboratory to meet data quality objectives that are documented in the approved SOP for each method. IDC data must be kept on file for review by auditors.

3. EPA Method 200.8

(a.) SOP Deviations

- (1.)SOP lacks signature page
- (2.)SOP goes from "Initial Performance Check" to "Analytical Run" without detailing any kind of calibration routine. The auditor did find that daily calibration was being performed with three standards and a blank. The concentrations for each standard for each element must be in the SOP, but are not.
- (3.)The "Pre-calibration Routine" detailed in para. 10.2 of the method is not addressed.
- (4.)Quality Control
 - (i) Control Limits for the QCs are not addressed.
 - (ii) Corrective actions for QCs are not properly addressed
 - (iii) Analysis of a calibration blank as a quality control after each IPC along with attendant control limits is not addressed.

(iv.) Preparation, frequency, concentration of QCs and spikes is not addressed.

(5.) Sample preparation section is grossly inadequate. Refer to section 11.0 of the method for specific requirements. An interpretation and adaptation of these requirements must be detailed in a revision. When samples are run by "DA", sample dilution must be accounted for.

(6.) Initial Demonstration of Performance instructions are completely absent. A revision should include the requirements of section 9.0 of the method. It should also include a routine for an Initial Demonstration of Capability (IDC) for individual analysts to determine precision and accuracy by processing four samples of known concentration through all steps of the preparation and analytical procedure, and evaluated against laboratory established acceptance criteria, and kept on file for review by the auditor. Analysts must complete IDP and IDC acceptably before attempting compliance monitoring analysis.

(7.) Acceptance criteria and corrective actions for the internal standards data are not addressed.

(b.) Method 200.8: Other Deviations

(1.) The elements used for the internal standards are different (except for scandium) than what is recommended in the method (para. 10.3). While Ho, Li, Lu, and Rh are listed as "acceptable" in Table 3, Ga, and Ge are not. If different formulas than what is called for in the method are used, a justification must be detailed in the SOP for review.

(2.) The tuning solution in use does not contain Be or Co as called for in para. 7.7 of the method. If a different formula is used, it must be properly justified in the SOP for review.

(3.) The auditor found that duplicate analyses were being averaged to produce reported values for the PT. This practice is not addressed in the SOP and uncalled for in the method. If duplicate (not to be confused with the required three replicate integrations per analysis) analyses are to be averaged for reporting the PTs, then this practice must be detailed in the SOP and applied to all analyses, such as compliance monitoring. PTs are to be received, prepared,

analyzed, and reported exactly like any unknown compliance monitoring sample and in accordance with an approved SOP referenced to an approved method.

- (4.) A Quality Control Calibration Blank is not being analyzed following the analysis of each IPC.
- (5.) The LRB and, consequently, the LFB are not being prepared properly. The proper procedure necessitates that a new, regular sample bottle, that would be used for sample collection, would be filled with ASTM Type I Reagent water, acidified, and allowed to stand for 16 hours before processing for Direct Analysis (with fortification to 1% HNO_3) or carried through the digestion procedure. The LFB would be an aliquot of the LRB, spiked the same as the LFM and then prepared appropriately.
- (6.) The Reagent Water D.I. System is deficient in documenting the purity to ASTM Type I Standards.
- (7.) MDLs were run only one day for each analyte instead of three. The fortified reagent water should contain analytes at 2-5 times the concentration of the predetermined Instrument Detection Limit (IDL) of each analyte. Analysis of more than one concentration level is highly recommended.
- (8.) Analyst was not initialing instrument data reports.
- (9.) IDC for precision and accuracy has not been established for any analyte.

B. CONCLUSION:

1. Analabs has a capable staff and is fairly well equipped. Notable exceptions with the equipment are the Reagent Water system's lack of ability to document purity for ASTM Type I criteria, the AA computer's lack of Y2K compliance, and the lack of alternant mixed gas (95% Ar + 5% H) for the AA. The ICP-MS recently acquired should be of tremendous benefit to the lab's future credibility. However, the laboratory staff needs to focus on and improve their knowledge of method and program requirements. The SOPs reviewed seemed to be hastily prepared for the audit's sake and need to be extensively revised, with final revisions submitted to the auditor for review.

2. Great importance is placed upon Proficiency Testing performance, data generation, and record keeping in regard to retaining certified status. The lab's inability to produce the raw data to support seven of the metals PT results for 2004 is very troubling and serious.
3. Due to the many inequities and deviations listed above, and your failure to satisfy the auditor that your laboratory is maintaining the required standard of quality, it is recommended that your certification status be downgraded to "Provisionally Certified" for all of the metals requested. It was indicated during the on-site that your laboratory no longer wishes to be certified for Barium by SM 3111D.
4. A Corrective Action Report (CAR) must be submitted within 30 days of receipt of this on-site report. This CAR must detail how your laboratory has or intends to address each deviation and finding listed above. Pending the receipt and assessment of the acceptability of the CAR, a final certification report reflecting the recommended or consequent status will be mailed to your laboratory. For all analytes for each method that are downgraded to "Provisionally Certified", your laboratory will have three months to correct the deviations before facing further downgrading. After three months, the "Provisionally Certified" analytes may be upgraded to "Certified" if the auditor is satisfied that all the deviations listed above have been corrected. A follow-up on-site inspection may be deemed necessary to ensure that the corrections described in the CAR have been enacted.

C. CERTIFICATION:

1. For Metals by Method EPA 200.9, "Provisionally Certified" is recommended for:
 - Antimony
 - Arsenic
 - Beryllium
 - Cadmium
 - Chromium
 - Copper
 - Lead
 - Selenium
 - Thallium

2. For Metals by Method EPA 200.8, "Provisionally Certified" is recommended for:

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Selenium
Thallium

Larry A. Duffield
Chief Certification Officer/Program Manager

Date

III. INORGANIC NON-METALS FINDINGS

Surveyed by Gregory Young, Inorganic Chemistry Certification Officer

A. ANALYTICAL AND METHOD REPORTS: NON-METALS

1. General Inorganic nonmetals

(a.) Deviations

- (1.) On several of the raw data sheets the concentration of the instrument performance check standard, laboratory fortified sample matrix and laboratory fortified blank were not listed. In the Manual for the Certification of Laboratories Analyzing Drinking Water, chapter 4, section 8.4.5, data should be recorded in ink and include the calibration and standards information (concentration, lot number, true value, etc.). Calculations for recovery and relative percent difference should also be included.
- (2.) The seven aliquots of fortified reagent water analyzed in determining the Method Detection Limit was analyzed only once. In the Manual for the Certification of Laboratories Analyzing Drinking Water, appendix H, section 2.3.3, the extraction/analyses of the seven aliquots of fortified reagent water should be performed over a period of at least three (all seven aliquots must be analyzed on the same day) days to provide a more reasonable MDL. The concentration of the fortified reagent water must be included with the data.
- (3.) The four replicates of a quality control or reference sample were not properly analyzed as part of the initial demonstration of capability. The initial demonstration of capability consists of four areas: method detection limit, method blank background, precision, and accuracy. This is performed for each analyst and instrument. The use of multiple sample preparation techniques must also be taken into account. The minimum of four replicates of a quality control or reference sample must be processed through all steps of the analytical procedure and analyzed together as listed in the Manual for the Certification of Laboratories

Analyzing Drinking Water, appendix H-15. The initial demonstration of capability (IDC) must be completed before an analyst analyzes any regulatory compliance samples.

- (4.) Quality control samples are not being analyzed quarterly. In the Manual for the Certification of Laboratories Analyzing Drinking Water, section 7.2.2., at least once each quarter, the laboratory needs to analyze a quality control standard for the analytes they are analyzing in that quarter.
- (5.) The laboratory must update the standard operating procedures to reflect all the deficiencies found during the on-site audit and incorporate a detailed section on quality control since this is a problem area for the laboratory. For each quality control the frequency, acceptance limits, preparation and corrective actions taken by the laboratory staff when a control limit is unacceptable must be listed in detail. It is the suggestion of the certification officer that the standard operating procedures follow the manual Guidance for Preparing Standard Operating Procedures published by the EPA Office of Environmental Information (EPA/240/B-01/004, March 2001)

2. Total Cyanide by EPA Method 335.4 Revision 1.0 Deviations

(a.) Deviations

- (1.) The proper preservation technique described in the method is not observed. In EPA method 335.4, section 4 and 8 describe in detail the required preservation treatment the sample will need based on known samples interferences and holding time requirements. The preservation treatment must be documented.
- (2.) The stock potassium cyanide is prepared in-house and is not standardized with silver nitrate. In EPA method 335.4, section 7.10 the potassium cyanide must be standardized with 0.0192N silver nitrate and documented.
- (3.) The mixture of sample and reagents is refluxed, however this is not documented. In EPA method 335.4, section 11.5 the sample must be refluxed for one and

one half hours. This should be documented by recording the starting time (when the sample is placed in reflux apparatus), the time the samples begin to reflux and the ending time of the reflux process.

- (4.) A calibration blank is not analyzed when developing the daily calibration curve. In EPA method 335.4, section 10.1 when developing a calibration curve a minimum of three standards must be prepared covering a desired range including a blank.
- (5.) The laboratory reagent blank (LRB) is not treated like a sample. The LRB must contain the same reagents used in sample preservation. All samples must be preserved to a pH ≥ 12 with sodium hydroxide and treated with ascorbic acid. The pH of the LRB must be adjusted with sodium hydroxide to a pH ≥ 12 and ascorbic acid must be added. The LRB solution must be transferred and stored in a sample bottle before analysis. The LRB solution must be documented.
- (6.) The laboratory fortified blank (LFB) is not treated like a sample. The LFB must contain the same reagents used in sample preservation. The LFB must be made from the LRB solution described above. The LFB should be at a concentration that falls in the middle of the calibration curve.
- (7.) The control limits listed on the Worksheet Report (6/17/04) are exceeding the minimum control limits ($100 \pm 10\%$) established in the method for the laboratory fortified blank and laboratory fortified sample matrix. EPA method 335.4, sections 9.3.2., and 9.4.2., lists the minimum required control limits for each quality control.
- (8.) The analyte concentration of the fortified reagent water used in establishing the Method Detection Limit (MDL) is too high. In the Manual for the Certification of Laboratories Analyzing Drinking Water, Appendix H, section 2.3.3, the best approach to determining an MDL is an iterative process of measuring successively lower concentrations until the actual limit of detection is defined. After this is established, the seven replicates of water, fortified at the concentration defined by the detection limit above, can be analyzed repetitively over

a period of three days. On each day, the seven replicates of the (or each) fortified water must be analyzed. The reportable MDL is the three day mean of the data that meets the acceptance criteria.

- (9.) All quality controls required by the method and Certification Manual were not analyzed with the proficiency testing sample. The proficiency testing sample must be treated in the exact same manner as a compliance monitoring sample.

(b.) Recommendation

- (1.) A standard and a blank are not being distilled and analyzed with each analytical run. In EPA Method 335.4, section 10.2 it is recommended that at least two standards (a high and low) and a blank be distilled and compared to similar values on the standard curve to insure that the distillation technique is reliable. If the laboratory chooses to do this quality control, it must be included in the laboratory standard operating procedure.

3. Nitrate and Nitrite by EPA 353.2 Revision 2.0

(a.) Deviations

- (1.) The preservation technique described in the method is not documented. EPA method 353.2, section 8.0, describes the different preservation techniques that may be used. When determining nitrate/nitrite a sample is preserved with sulfuric acid to a pH < 2. The sample's pH value must be documented to show the sample was properly preserved.
- (2.) The laboratory does not document that the sample was adjusted to a pH between 5 and 9 with concentrated ammonium hydroxide. In EPA method 353.2, section 11.1, if the pH of the sample is below 5 or above 9, adjust to between 5 and 9 with ammonium hydroxide or hydrochloric acid and document.
- (3.) When analyzing combined nitrate/nitrite samples a nitrite standard is not compared to a nitrate standard at the same concentration to check the column efficiency. According to EPA method 353.2, section 10.1, at least one nitrite standard should be compared to a nitrate

standard at the same concentration to verify efficiency of the reduction column. After the column efficiency is verified, the standards and blank used in determining the calibration curve can be analyzed. The control limits established by the laboratory must be included in the standard operating procedure. (Our laboratory currently observes a minimum efficiency of 96%).

- (4.) A calibration blank is not analyzed when developing the daily calibration curve. EPA method 353.2, section 10.1, states that when developing a calibration curve, a minimum of three standards and a blank must be prepared covering the desired analytical range.
- (5.) The laboratory reagent blank (LRB) is not treated like a sample. The LRB must contain the same reagents used in sample preservation. All samples analyzed for combined nitrate/nitrite are preserved to a pH ≤ 2 with sulfuric acid. The pH of the LRB must be adjusted with sulfuric acid to a pH ≤ 2 . The LRB solution must be transferred and stored in a sample bottle before analysis. The LRB solution must be documented.
- (6.) The laboratory fortified blank (LFB) is not treated like a sample. The LFB must contain the same reagents used in sample preservation. The LFB must be made from the LRB solution listed above. The LFB should be at a concentration that falls in the middle of the calibration curve.
- (7.) The control limits listed on the Worksheet Report (10/15/04) are exceeding the maximum control limits ($100 \pm 10\%$) established in the method for the laboratory fortified blank and laboratory fortified sample matrix. EPA method 353.2, sections 9.3.2., and 9.4.2., lists the required control limits for each quality control.
- (8.) All quality controls required by the method and Certification Manual were not analyzed with the proficiency testing sample. The proficiency testing sample must be treated in the exact same manner as a normal sample.

4. Fluoride by Standard Methods 4500F-C

(a.) Deviations

- (1.) The laboratory reagent blank (LRB) is not treated like a sample. Because the sample is not chemically preserved, the only requirement would be filling a sample bottle with laboratory reagent water before analysis.
- (2.) The laboratory fortified blank (LFB) is not treated like a sample. The LFB must be made from the LRB solution listed above. The LFB should be fortified at a concentration that falls in the middle of the calibration curve.
- (3.) The proficiency testing samples were analyzed several times. The proficiency testing sample must be treated in every way as a routine sample. Proficiency testing samples must be analyzed the same number of times as a routine sample as detailed in the SOP. Also, all quality controls required by the method and Certification Manual must be included in the run.
- (4.) The analyst does not follow the proper use of significant figures when recording analytical results. In the Manual for the Certification of Laboratories Analyzing Drinking Water, appendix H, section 3.2, the significance of an analytical result cannot exceed the significance of the least precise step in the procedure. The numbers resulting from the calculations cannot reflect greater precision than the data used to make the calculations.

B. CONCLUSION

1. During the scheduled onsite audit of Analabs, Inc. several deviations were found which are easily correctable. I believe the main reason for the deviations is the inadequacies of the Standard Operating Procedures (SOP) used by the laboratory personnel.
2. A Corrective Action Report (CAR) must be submitted within 30 days of receipt of this on-site report. This CAR must detail how your laboratory has or intends to address each deviation and finding listed above. Due to the inadequacy of the SOPs, a rough outline is requested with the CAR, and then the completed SOPs must be submitted within 3 months. Pending the acceptability of the CAR, a final certification status will be mailed to

your laboratory. A follow-up on-site audit may be deemed necessary to ensure the corrections described in the CAR have been enacted.

C. CERTIFICATION

Based on the on-site audit, and upon correction of deviations, "Certified" is recommended for:

1. Total Cyanide by EPA Method 335.4 Revision 1.0
2. Nitrate/Nitrite by EPA Method 353.2 Revision 2.0
3. Fluoride by Standard Methods 4500F⁻ C

Gregory W. Young
Inorganic Certification Officer

Date



***ACCREDITED RADIOCHEMISTRY LABS AUTHORIZED BY THE DHHR BUREAU
FOR PUBLIC HEALTH, OFFICE OF ENVIRONMENTAL HEALTH SERVICES**

Revised: June 16, 2005

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STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES
ENVIRONMENTAL MICROBIOLOGY

Joe Manchin III
Governor

**Report of an
On-Site Evaluation
Of
EnviroLabs
6327 Emerson Avenue
Parkersburg, WV 26101
On
March 3, 2005**

**By
Thomas L. Ong, Microbiologist Supervisor
Laboratory Evaluation Officer
And
Michael Flesher, Microbiologist III
Laboratory Evaluation Officer**

Date of Report: March 24, 2005

STATUS: Certified for the Microbiological Analysis of Drinking Water – Total Coliforms by Chromogenic/Fluorogenic Substrate Test [Colilert] (SM9223B); *E. coli* by Chromogenic/Fluorogenic Substrate Test [Colilert] (SM9223B)

I. At the time of the on-site evaluation, the following items with the minimum standards set forth in the USEPA's Manual for the Certification of Laboratories Analyzing Drinking Water, Fifth Edition (January 2005):

Item Deviation

Laboratory Equipment and Supplies

3.1.4 pH meters must be standardized before each use period with pH 7.0 and either pH 4.0 or 10.0 standard buffers, whichever range covers the desired pH of the media or reagent. The date and buffers used should be recorded in a logbook, along with the analyst's initials.

The only item requiring the pH to be recorded is the commercially prepared Tryptic Soy Broth. The pH of this item was not determined and therefore the calibration records for it had not yet been done. A quality control form was sent

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to capture this information.

- 3.1.5 Record the slope of the pH meter immediately after calibration. The requirement is to record the slope monthly; however, since calibration is only required upon receipt of a new lot of Tryptic Soy Broth (prior to verifying the pH) a less frequent schedule may be implemented if shipments of TSB are not received monthly. Since the pH meter may only be calibrated several times throughout the year, the slope must be recorded each time it is calibrated.

Analytical Methodology

- 5.6.1.3 For media prepared commercially (i.e., TSB), the date received, type of media, lot number and pH verification must be recorded for each new lot received.

TSB had been received but no quality control form existed to capture this information. A form was sent that could be used to record this information.

- 5.1.6.4 Each new lot of prepared commercial medium must be checked with positive and negative culture controls.

The Colilert reagent was being checked with the appropriate controls; however, no controls were being done on the TSB. Any of the three organisms used for the Colilert productivity check (i.e., *E. coli*, *K. pneumonia* or *P. aerogenosa*) could be used as a positive control for TSB. For the negative control, an un-inoculated vial should be incubated at $35.0^{\circ}\pm 0.5^{\circ}\text{C}$ for 48 hours.

The TSB that was originally received and used to verify the sterility of the Colilert sample bottles met an untimely demise (remaining vials were dropped and broken) before the pH could be verified and positive and negative controls could be performed. Another set of TSB must be ordered, the pH verified and the proper controls run. If it is the same lot number that was previously received then the bottle sterility checks will not have to be redone otherwise, the sterility checks on the sample bottles will have to be repeated.

Sample Collection, Handling and Preservation

- 6.5 The sample information form must include information about the analysis requested.

Records and Data Reporting

- 8.2 The client water system must be notified prior to disposal of any analytical records associated with testing so that they may request copies if needed. This includes all reports, raw data, calculations and quality control data.

Continued certification is dependent upon the following four items:

1. Satisfactorily participating in a proficiency test study within the first three months of each calendar year with results reported not later than September 30.
2. Submittal of the appropriate certification fee by the requested date.
3. Demonstrate compliance during and on-site evaluation.
4. Promptly notify this office of any changes in personnel, equipment or intent to switch or add testing methods.

Items 1, 2 and 3 above have been completed for the 2005 certification year. The next scheduled on-site evaluation will be on or before March 2007. Unannounced on-site evaluations may be conducted randomly at anytime prior to the March 2007 date.

If there are any questions regarding this report or further assistance is needed, please do not hesitate to contact this office.

Sincerely,



Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer

II. At the time of the on-site evaluation, the following items were listed as undetermined due to conditions that existed at that time:

3.1.5.2 If the slope of the pH meter is < 95% or >105%, the electrode may need maintenance. Follow the manufacturer's instructions for electrode maintenance and general cleaning.

Since the pH meter had not been calibrated with the new buffers, the slope has yet to be determined.

III. Comments, Suggestions and Recommendations

1. The NIST traceable thermometer is due for re-certification March 2005. Since thermometers have recently been calibrated, it would be acceptable to wait and have it re-calibrated or replaced just prior to its next use.
2. Since the Colilert Test is specific for *E. coli*, all references to Fecal Coliforms should be removed from the log books, quality control forms and reports and replaced with "*E. coli*".

Conclusion

The laboratory has shown great improvements over the past couple of months. Mr. Anderson spent Thursday, January 27, 2005 at the Office of Laboratory Services exploring the possibilities of switching from membrane filtration methods to the enzyme substrate method – Colilert. During this visit all aspects of the Colilert Test were reviewed including proper aseptic technique in setting up the test, correctly interpreting and reporting results and the required quality control associated with this method.

During the March 3, 2005 on-site evaluation, only the above items which are easily correctable were out of compliance. Mr. Anderson took immediate action to correct these and submitted written documentation within the following week (received March 4, 8 and 9) indicating that the few items listed above had been adequately addressed. No further response is needed to this report. Mr. Anderson was notified by email on March 9, 2005 that the deviations listed above had been adequately addressed, the 2005 Certification Fee had been received (received March 9, 2005) and that certification for the Method/Analytes listed on page one of this report has been granted effective March 9, 2005.

It should be noted that this was the first complete on-site evaluation using the new microbiology check list from the USEPA's *Manual for the Certification of Laboratories Analyzing Drinking Water*, 5th Edition, January 2005. A newly developed rating system is being implemented with this revision that indicates a compliance score. Data will be generated over the next three years with all certified drinking water laboratories within the state to determine the possibility of setting standards. Until then, the numbers generated are not valid in determining compliance enforcement and will only be used for statistical analysis. They will remain confidential. The rating for this on-site evaluation was 93%.

EQUIPMENT LIST

EQUIPMENT	MANUFACTURER	MODEL NUMBER
pH Meter	1. Fisher Scientific	1. Acumet 50
	2. Fisher Scientific	2. Acumet 915
Balances	1. **	1.
	2.	2.
NIST (NBS) Thermometer	1. Ertco	1. 1325
	2.	2.
Incubator	1. Fisher Scientific	1. 1325
Total Coliform (35.0°±0.5°C)	2.	2.
Incubator/Water Bath	1. Sybron/Thermolyne	1. WB 12715 E
Fecal Coliform (44.5°±0.2°C)	2. Percision Scientific	2. 20 AH7
Autoclave	1. **	1.
	2.	2.
Hot Air Oven	1. **	1.
	2.	2.
Colony Counter	1. **	1.
	2.	2.
Conductivity Meter	1. **	1.
	2.	2.
Refrigerators	1. GE	1.
	2.	2.
Membrane Filtration Equipment	1. **	1.
	2.	2.
Membrane Filtration Filters	1. **	1.
	2.	2.
Reagent Water Purification System	1. **	1.
	2.	2.

** Not Applicable for Enzyme Substrate Methods when using all commercially prepared/disposable items.



STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES

Joe Manchin III
Governor

ENVIRONMENTAL MICROBIOLOGY
ON-SITE EVALUATION CHECKLIST

Laboratory:	EnviroLabs				
Mailing Address:	6331 Emerson Avenue				
City:	Parkersburg	State:	WV	Zip:	26104
Telephone:	304-422-4760	FAX:	304-422-4761		
Email:	FredAnderson@asipt.com				
Shipping Address:					
Date(s) of On-site:	March 3, 2005				

Position Title	Name	Time In Present Position	Academic Training and/or Degree	Present Speciality	Experience (Years/Area)
Laboratory Director	Fred Anderson	12 Yrs.	Masters in Science	Micro/ Chemistry	3 - Micro 20 - Chem
Supervisor/ Consultant					
Professional (Note Discipline)					
Technician/ Analyst					
Technician/ Analyst					
Technician/ Analyst					
Technician/ Analyst					
Technician/ Analyst					
Technician/ Analyst					
Technician/ Analyst					

CODES FOR MARKING CHECKLIST:

Y = YES

N = NO

O = NOT APPLICABLE

? = UNDETERMINED

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ELEMENT	ITEM	Y/N/O	COMMENTS
Are electrodes maintained according to the manufacturer's recommendations?	3.1.3	Y	
QC Are pH meters standardized before each use period with pH 7.0 and either 4.0 or 10.0 standard buffers, whichever covers the desired pH of the media or reagent?	3.1.4	N	Only required to pH TSB but had not yet done so.
QC Are both the date and buffers used recorded in a logbook along with the analyst's initials?		N	
QC Is the pH slope recorded monthly, after calibration?	3.1.5	N	
QC If the pH meter does not have a feature to automatically calculate the slope, but can provide in the pH in millivolts, is the formula in Section 3.1.5.1 used to calculate the slope?	3.1.5.1	O	
QC If the slope is below 95% or above 105%, are the manufacturer's instructions followed for meter or electrode maintenance and general cleaning?	3.1.5.2	?	
QC Are commercial pH buffer solutions dated when received and when opened?	3.1.6	Y	Buffers had not yet been opened.
QC Are pH buffer solutions discarded by the expiration date?		Y	
Temperature Monitoring Device	3.3		
Are glass, dial, or electronic thermometers graduated in 0.5°C increments (0.2°C increments for tests which are incubated at 44.5°C) or less, except as noted for hot air ovens (Section 3.6.1) and refrigerators (Section 3.9.1)?	3.3.1	Y	
Does observation of glass thermometers indicate no separation in fluid columns?		Y	
Are only dial thermometers which can be adjusted used?		O	
QC Are glass and electronic thermometers calibrated annually and dial thermometers quarterly at the temperature used, against a NIST-traceable reference thermometer or one that meets the requirements of NBS Monograph SP 250-23?	3.3.2	Y	
QC Are both the calibration factor and calibration date indicated on the		Y	
QC Is the following calibration information recorded in a QC record book?			
- Serial number of the laboratory thermometer		Y	
- Serial number of the NIST-traceable thermometer (or other reference thermometer)		Y	
- Temperature of the laboratory thermometer		Y	
- Temperature of the NIST-traceable thermometer (or other reference		Y	
- Correction (or calibration) factor		Y	
- Date of check		Y	
- Analyst's initials		Y	
QC Is the thermometer discarded if it differs by more than 1°C from the reference thermometer?	3.3.3	Y	
QC Are reference thermometers recalibrated at least every five years?		Y	
QC Is reference thermometer calibration documentation maintained?		Y	
QC Are continuous recording devices used to monitor incubator temperature recalibrated at least annually, using a reference thermometer that meets the specifications noted in Section 3.3.2?		O	
Incubator Unit	3.4		
Do incubator units have an internal temperature monitoring device and maintain a temperature specified by the method used, usually 35°±0.5°C and 44.5°±0.2°C?	3.4.1	Y	
For non-portable incubators, are thermometers placed on top and bottom shelves of the use area and immersed in liquid as directed by the manufacturer (except for electronic thermometers)?		Y	
When aluminum block incubators are used, do culture dishes and tubes fit snugly?		O	
QC Is the calibration-corrected temperature recorded for each thermometer being used at least twice per day during each day the incubator is in use?	3.4.2	Y	
QC Are these readings separated by at least four hours?		Y	
QC Does the documentation include the date and time of reading, temperature, and technician's initials?		Y	
If a circulating water bath is used, is it equipped with a gable cover to ensure an incubation temperature of 44.5E±0.2EC?		O	
Refrigerator	3.9		
Does the refrigerator maintain a temperature of 1°-5°C?	3.9.1	Y	

ELEMENT	ITEM	Y/N/O	COMMENTS
1. PERSONNEL			
Supervisor/Consultant	1.1		
Does the supervisor of the microbiology laboratory have a bachelor's degree in microbiology, biology, or equivalent?		O	
Has a supervisor with a degree in a subject other than those listed above had at least one college-level microbiology laboratory course in which environmental microbiology was covered?		Y	
In addition, has the supervisor had a minimum of two weeks training at a Federal or State agency or academic institution in microbiological analysis of drinking water or 80 hours of on-the-job training in water microbiology at a certified laboratory, or other training acceptable to the State or EPA?		Y	
If a supervisor is not available, and a waiver has not been granted as per Section 1.3, is a consultant with the same qualifications substituted?		O	
If a supervisor is not available, and a waiver has not been granted as per Section 1.3, is a consultant with the same qualifications substituted?		O	
Can the laboratory supervisor demonstrate that all laboratory personnel have the ability to satisfactorily perform the analyses to which they are assigned?		O	No other analyst available
Can the laboratory supervisor demonstrate that all data reported by the laboratory meets the required quality assurance and regulatory criteria?		Y	
Analyst (or equivalent job title)	1.2		
Does the analyst have at least a high school education, a minimum of three months bench experience in water, milk or food microbiology, training in microbiological analysis of drinking water acceptable to the State (or EPA), and a minimum of 30 days on-the-job training under an experienced analyst?		Y	Supervisor and Analyst are one in the same.
Has the analyst demonstrated acceptable results on unknown samples before analyzing compliance samples?		Y	
Waiver of Academic Training	1.3		
Has the certification authority waived the need for the above specified academic training for highly experienced analysts in this laboratory?		O	
Has the certification authority waived the need for the above specified training for supervisors of laboratories associated with drinking water systems that only analyze samples from that system?			
If yes to either of the above, does the laboratory have a copy of that written and signed waiver available for inspection?			
Personnel Records	1.4		
Does the laboratory maintain personnel records on laboratory analysts that include academic background, specialized training courses completed, and types of microbiological analyses conducted?		Y	
2. LABORATORY FACILITIES			
Does the laboratory have facilities that are clean and temperature and humidity controlled, and with adequate lighting at the bench tops?		Y	
Does the laboratory maintain effective separation of incompatible testing areas?		Y	
Does the laboratory control access where appropriate, and minimize traffic flow through the work areas?		Y	
Does the laboratory ensure that contamination does not adversely affect data Quality?		Y	
Does the laboratory have bench tops and floors that are easily cleaned and disinfected?		Y	
Does the laboratory have sufficient space for processing samples; storage space for media, glassware, and portable equipment; floor space for stationary equipment; and areas for cleaning glassware and sterilizing materials?		Y	
Does the laboratory have provisions for disposal of microbiological wastes?		Y	
3. LABORATORY EQUIPMENT AND SUPPLIES			
Does the laboratory have the equipment and supplies needed to perform the approved methods for which certification has been requested?		Y	
pH meter	3.1	Y	
Are accuracy and scale graduations within ± 0.1 units?	3.1.1	Y	
Are pH buffer aliquots used only once?	3.1.2	Y	

ELEMENT	ITEM	Y/N/O	COMMENTS
Sterilization Procedures	4.1	O	
Does the laboratory follow the minimum times for autoclaving the materials listed below at 121°C?	4.1.1		
- Membrane filters and pads 10 min			
- Carbohydrate containing media 12-15 min			
- Contaminated test materials 30 min ²			Disinfected with Bleach
- Membrane filter assemblies 15 min			
- Sample collection containers 15 min			
- Individual glassware 15 min			
- Dilution water blank 15 min			
- Rinse water (0.5 - 1 L) 15-30 min ²			
¹ except where otherwise specified by the manufacturer			
² time depends upon water volume per container and autoclave load			
Are autoclaved membrane filters and pads and all media removed immediately after completion of the sterilization cycle?	4.1.2		
Is membrane filter equipment autoclaved before the beginning of a filtration series?	4.1.3		
If a UV light (254 nm) is used to sanitize equipment after initial autoclaving for sterilization, are all supplies presterilized?	4.1.4		
Sample Containers	4.2		
QC Is at least one sample container selected at random from each batch of sterile sample bottles, or other containers (or lot of commercially available sample containers), and the sterility confirmed by adding 25 mL of a sterile non-selective broth, incubating at 35°±0.5°C, and checking for growth after 24 and 48 hours?		Y	
QC Are these results recorded?		Y	
QC If growth is detected, is the entire batch resterilized?		Y	
Dilution/Rinse Water	4.4	O	
Is stock buffer solution or peptone water prepared as specified in Standard Methods, Section 9050C?	4.4.1		
Are stock buffers autoclaved or filter-sterilized?	4.4.2		
Are these containers labeled, dated, and refrigerated?			
Are stored stock buffers free from turbidity?			
QC Is each batch (or lot, if commercially prepared) of dilution/rinse water checked for sterility by adding 50 mL of water to 50 mL double strength non-selective broth, incubating at 35°±0.5°C, and checking for growth after 24 hours and 48 hours?	4.4.3		
QC Are these results recorded?			
QC Is the batch/lot discarded if growth is detected?			
Glassware Washing	4.5	O	All Disposable
Is distilled or deionized water used for the final rinse?	4.5.1		
Is laboratory glassware washed with a detergent designed for laboratory use?	4.5.2		
QC Is the glassware inhibitory residue test performed before the initial use of a washing compound and whenever a different formulation, or washing procedure is used?	4.5.3		
QC Are these results recorded?			
QC Is each batch of dry glassware used for microbial analysis spot-checked for pH reaction using 0.04% bromthymol blue (or equivalent pH indicator) and the color reaction recorded?	4.5.4		
5. ANALYTICAL METHODOLOGY			
General	5.1		
For compliance samples, does the laboratory use only the analytical methodologies specified in the Total Coliform Rule (TCR), the Surface Water Treatment Rule (SWTR), and the Groundwater Rule (GWR)?	5.1.5	Y	
Is the laboratory certified for all analytical methods it uses for compliance purposes?	5.1.2	Y	
At a minimum, is the laboratory certified for one total coliform method and one fecal coliform or E. coli method?		Y	
Is the laboratory certified for a second total coliform method if one method cannot be used for some drinking waters?		O	

ELEMENT	ITEM	Y/N/O	COMMENTS
Is the refrigerator thermometer graduated in at least 1°C increments and the thermometer bulb immersed in liquid?		Y	
QC On days the refrigerator is in use, and the laboratory is staffed, is the calibrated-corrected temperature recorded at least once per day?	3.9.2	Y	
Pipets	3.13	O	
Are glass pipets sterilized and maintained in stainless steel or aluminum canisters or wrapped individually in char-resistant paper or aluminum foil?	3.13.1		
Do pipets have legible markings and are they not chipped or etched?	3.13.2		
Are opened packs of disposable sterile pipets resealed between use periods?	3.13.3		
Are pipets delivering volumes of 10 mL or less accurate to within a 2.5% tolerance?	3.13.4		
Are calibrated micropipettors used with sterile tips?	3.13.5		
Are micropipettors calibrated annually and adjusted or replaced if the precision or accuracy is greater than 2.5%?			
Glassware and Plasticware	3.14		
Is the glassware made of borosilicate glass, or other corrosion-resistant glass, and free of chips and cracks?	3.14.1	O	
Are markings on graduated cylinders and pipets legible?		Y	
Are plastic items clear and nontoxic to microorganisms?		Y	
QC Are the graduated cylinders used for measurement of sample volumes, or other precalibrated containers that have clearly marked volumes used in lieu of graduated cylinders, accurate to within a 2.5% tolerance?	3.14.2	Y	
Are culture tubes and containers containing fermentation medium of sufficient size to contain medium plus sample without being more than three quarters full?	3.14.3	O	
Are tube closures made of stainless steel, plastic, aluminum, or screw caps with nontoxic liners?	3.14.4	Y	
Are cotton or foam plugs used?		O	
Sample Containers	3.15		
Are sample containers wide-mouth plastic or non-corrosive glass bottles with non-leaking ground glass stoppers or caps with nontoxic liners, sterile plastic bags containing sodium thiosulfate, or other appropriate sample containers?	3.15.1	Y	
Is sample container capacity at least 120 mL (4 oz) to allow at least a 1-inch head space?		Y	
Are glass stoppers covered with aluminum foil or char-resistant paper for sterilization?	3.15.2	O	
Are unsterilized glass and plastic bottles sterilized by autoclaving or, alternatively, by dry oven for glass bottles?	3.15.3	O	
Are empty containers moistened with several drops of water before autoclaving to prevent an Air lock@ sterilization failure?		O	
If chlorinated water is to be analyzed, is sufficient sodium thiosulfate added to the sample bottles before sterilization to neutralize any residual chlorine in the water sample?	3.15.4	Y	
Ultraviolet Lamp (If used)	3.16	Y	
Is the germicidal unit disconnected monthly and the lamp cleaned by wiping with soft cloth moistened with ethanol?	3.16.1	O	
Is the longwave unit used for fluorometric tests kept clean?		Y	
QC Is the germicidal unit tested quarterly with a UV light meter or agar spread plate?	3.16.2	O	
QC Is the lamp replaced if it emits less than 70% of its initial output or if an agar spread plate containing 200 to 250 microorganisms, exposed to the UV light for two minutes, does not show a count reduction of 99%?		O	
4. GENERAL LABORATORY PRACTICES			
Are laboratory personnel aware of general and customary safety practices for laboratories?		Y	
Does the laboratory have a safety plan available?		Y	
Does the laboratory keep a copy, and follow the personal protection guidelines, of any material safety data sheet accompanying the receipt of a toxic material?		Y	

ELEMENT	ITEM	Y/N/O	COMMENTS
For enumerating total coliforms in source waters by an enzyme substrate test, does the laboratory use the Colilert test?		O	
If a laboratory uses a fermentation method to detect total coliforms in drinking water, and the sample is total coliform-positive, does the laboratory transfer the positive culture to the EC+MUG test to detect E. coli, but not to any other enzyme substrate test medium in Section 5.3?		O	
Media	5.3.1.2		
Does the laboratory purchase media from a commercially available source only and not prepare media from basic ingredients?	5.3.1.2.1	Y	
Are media kept protected from light?	5.3.1.2.2	Y	
Is each lot of medium checked for fluorescence before use with a 365-366-nm ultraviolet light with a six watt bulb?	5.3.1.2.3	O	
If medium exhibits faint fluorescence, is another lot used that does not fluoresce?		O	
If samples plus medium exhibit color changes before incubation, is the medium discarded and another lot of medium used?	5.3.1.2.4	O	
Are glass and plastic bottles and test tubes checked before use with a 365-366-nm ultraviolet light source with a 6-watt bulb to ensure that they do not fluoresce?	5.3.1.3	Y	
If they fluoresce, does the laboratory use another lot of containers that does not fluoresce?		O	
If a Whirl-Pak7 bag is used to incubate the Colilert or Colitag medium or any other medium which changes to a yellow color to indicate a positive result, is a type used that has a barrier (e.g., B01417) to prevent gaseous emissions to other Whirl-Pak7 bags during incubation?	5.3.1.4	O	
QC If a small air-type incubator is used, are samples brought to room temperature before incubation?	5.3.1.5	Y	
If a water bath is used, is the water level above the upper level of the medium?	5.3.1.6	O	
For E. coli testing, are all total coliform-positive samples placed under a UV lamp (365-366 nm) in a darkened area?	5.3.1.7	Y	
Does the laboratory refrain from using the enzyme substrate test to confirm a presumptive total coliform-positive culture in a fermentation broth or on a membrane filter?	5.3.1.8	O	
Does the laboratory invalidate any sample that produces an atypical color change (in the absence of a yellow color) and then collect, or request that the system collect, another sample from the same location as the original invalidated sample?	5.3.1.9	Y	
Does the laboratory use another method to test the second sample?		O	
Is the reference comparator provided by the manufacturer discarded by the manufacturer's expiration date?	5.3.1.10	Y	
Criteria for specific media	5.3.2		
For the Colilert test, are samples incubated at 35°±0.5°C for 24 hours?	5.3.2.1	Y	
Is a sample with a yellow color in the medium equal to or greater than reference comparator recorded as total coliform-positive?		Y	
Is a sample with a yellow color lighter than comparator incubated for another four hours but no longer than 28 hours total?		Y	
Is a sample with a yellow color lighter than the comparator after 28 hours of incubation recorded as total coliform-negative?		Y	
Are coliform-positive samples that fluoresce under a UV light marked as E. coli-positive?		Y	
For the Colilert-18 test, are samples incubated for 18 hours (up to 22 hours if the sample after 18 hours is yellow, but lighter than the comparator)?		Y	
For enumerating total coliforms in source waters, does the laboratory use the Colilert test, a 5- or 10-tube configuration, Quanti-Tray, or Quanti-Tray 2000 for each sample dilution tested?	5.3.2.1.1	O	
When dilution water is used, is it either sterile deionized or sterile distilled water, not buffered water?		O	
QC If the Quanti-Tray or Quanti-Tray 2000 test is used, is the sealer checked monthly by adding a dye to the water?	5.3.2.1.2	O	
For the Colisure test, are samples incubated at 35°±0.5°C for 24-48 hours?	5.3.2.2	O	

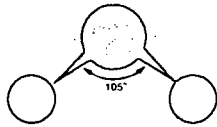
ELEMENT	ITEM	Y/N/O	COMMENTS
For a laboratory that enumerates heterotrophic bacteria for compliance with the SWTR, is the laboratory certified for either the Pour Plate Method or the SimPlate method for heterotrophic bacteria?		O	
Are water samples shaken vigorously at least 25 times before analyzing?	5.1.3	Y	
QC If dilution buffer is used, does the laboratory check the buffer volume in one dilution bottle of each batch or lot?	5.1.4	O	
QC For a 90-mL or 99-mL volume, is the tolerance ± 2 mL?		O	
Does the laboratory analyze a 100-mL sample volume for total coliforms in drinking water?	5.1.5	Y	
Media (or defined substrate)	5.1.6		
Are dehydrated media stored in a cool dry location and discarded by the manufacturer's expiration date?	5.1.6.1	O	
Is caked or discolored dehydrated media discarded?		O	
QC For media prepared in the laboratory is the following information recorded?	5.1.6.2	O	
- Date of preparation			
- Type of medium			
- Lot number			
- Sterilization time and temperature			
- Final pH (after sterilization)			
- Technician's initials			
QC For media prepared commercially is the following recorded for each lot?	5.1.6.3	Y	
- Date received		N	
- Type of medium		N	
- Lot number		N	
- pH verification		N	
QC Are media prepared commercially discarded by manufacturer's expiration date?		Y	
QC Is each new lot of dehydrated or prepared commercial medium and each batch of laboratory-prepared medium checked before use for sterility and with positive and negative culture controls?	5.1.6.4	N	Colilert - Yes TSB - No
QC Are these results recorded?		N	Not for TSB
QC For laboratories using commercially prepared media with manufacturer shelf-lives of greater than 90 days, are positive and negative controls run each quarter, in addition to that noted above?		Y	
QC Are these results recorded?		Y	
QC For control organisms, are stock cultures periodically checked for purity and the results recorded, or are commercially available disks impregnated with the organism used?		Y	
If prepared medium is stored after sterilization, is it maintained in the dark as follows?	5.1.6.5	O	
- poured plates 1° - 5°C 2 weeks			
- broth in containers with loose-fitting closures 1° - 30°C 2 weeks			
- broth in tightly closed containers 1° - 30°C 3 months			
QC Does the laboratory perform parallel testing between a newly approved test and another EPA-approved procedure for enumerating total coliforms for at least several months and/or several seasons to assess the effectiveness of the new test for the wide variety of water types submitted for analysis? Recommended.	5.1.7	O	
Does the laboratory perform the approved methods listed in this section for the TCR, SWTR, and/or GWR?	5.1.8	Y	
Enzyme (chromogenic/fluorogenic) substrate tests	5.3	Y	
General	5.3.1		
For detecting total coliforms and E. coli in drinking water by an enzyme substrate test, does the laboratory use one of the following: MMO-MUG test (Colilert), Colisure test, E*Colite test, ReadyCult Coliforms 100 Presence/Absence Test, Fluorocult LMX test, or Colitag test?	5.3.1.1	Y	Colilert

ELEMENT	ITEM	Y/N/O	COMMENTS
Are service lines cleared before sampling by maintaining a steady water flow for at least 2 minutes or until a steady water temperature is reached?		Y	
Is at least a 100-mL sample volume collected, allowing at least a 1-inch air space in the container to facilitate mixing of the sample by shaking?		Y	
Is a sample information form completed immediately after sample collection?		Y	
If a sample bottle is filled too full to allow for proper mixing, is the entire sample poured into a larger sterile container and mixed before proceeding with the analysis?		Y	
For the SWTR, are the source water samples representative of the source of supply and collected not too far from the intake point, but at a reasonable distance from the bank or shore?	6.2.2	O	
Is the sample volume sufficient to perform all the tests required?		Y	
For the analysis of coliphage, E. coli, or enterococci under the GWR, is at least a 100-mL sample volume collected?	6.2.3 6.2.4	O	
Sample Icing	6.3		
For drinking water bacterial samples, is the sampler encouraged to hold samples at <10°C during transit to the laboratory?	6.3.1	O	
For source water bacterial samples, are samples held at <10°C during transit to the laboratory?		O	
Does the laboratory reject samples that have been frozen?		Y	
For coliphage analysis under the GWR, are samples shipped at <10°C, stored at 1° 5°C, and not frozen?	6.3.2	O	
QC For SWTR samples and coliphage samples, does the laboratory record sample temperature upon receipt?		O	
QC Does the laboratory flag samples that have a temperature upon receipt of >10°C, whether iced or not, unless the time since the sample collection is less than two hours?		O	
Sample Holding/Travel Time	6.4		
For the analysis of total coliforms in drinking water, does the time between sample collection and placement of the sample in the incubator not exceed 30 hours?	6.4.1	Y	
Are all samples analyzed on the day of receipt?		Y	
Are samples received late in the day refrigerated overnight only if analysis can begin within 30 hours of collection?		O	
For total coliforms and fecal coliforms in surface water sources, and for heterotrophic bacteria in drinking water, is the time from sample collection to placement in the incubator less than eight hours?	6.4.2	O	
For coliphage analysis, is the time from sample collection to placement of sample in the incubator less than 48 hours?	6.4.3	O	
For coliphage analysis, is the time from sewage sample collection to analysis of QC spiking suspension less than 24 hours, unless re-titered and the titer has not decreased by more than 50%?		O	
If the titer has not decreased by more than 50%, is the sample stored no longer than 72 hours?		O	
For E. coli and enterococci analysis under the GWR, is the time between sample collection and the placement of sample in the incubator less than 30 hours?	6.4.4	O	
Sample Information Form	6.5		
After collection, does the sampler enter the following information, in indelible ink, on sample information form?			
- Name of system (PWSS identification number if available)		Y	
- Sample identification (if any)		Y	
- Sample site location		Y	
- Sample type (e.g., a routine distribution, repeat, raw or process, or other special purpose)		Y	
- Date and time of collection		Y	
- Analysis requested		N	
- Disinfectant residual		Y	
- Name of sampler		Y	
- Any remarks		Y	

ELEMENT	ITEM	Y/N/O	COMMENTS
If the medium changes from a yellow color to a red/magenta color, is the sample noted as total coliform-positive?			
Is a coliform-positive sample that fluoresces under a UV light marked as E. coli-positive?			
For the E*Colite test, is the sample incubated at 35°±0.5°C for 28 hours?	5.3.2.3	O	
If the medium changes from a yellow color to a blue or blue-green color, or a blue color in the corners of the bag, is the sample marked as total coliform-positive?			
If the medium fluoresces under a UV light, is the sample considered as E. coli-positive?			
If fluorescence is not observed, is the sample reincubated for an additional 20 hours (for a total incubation time of 48 hours) and checked again for fluorescence?			
If the medium becomes red in color, is the sample discarded and another sample requested?			
For the Readycult Coliforms 100 Presence-Absence test, are the contents of a snap pack added to a 100-mL sample and then incubated at 35°±0.5°C for 24±1 hours?	5.3.2.4	O	
If the medium changes color from a slightly yellow color to blue-green, is the sample marked as coliform-positive?			
If the medium fluoresces a bright light-blue color when subjected to long wave UV (365-366 nm) light, is the sample marked as E. coli-positive?			
For the Fluorocult LMX test, is the medium added to purified water, mixed, and the mixture then boiled to dissolve the medium completely in the water?	5.3.2.5	O	
Are 100-mL aliquots transferred to 250-mL bottles and then autoclaved for 15 minutes?			
Are the autoclaved bottles cooled before adding the 100-mL water sample?			
Is the E. coli/Coliform Supplement not added to the medium?			
Is the sample then incubated at 35°±0.5°C for 24±1 hours?			
If the medium changes color from a slightly yellow color to blue-green, is the sample marked as coliform-positive?			
If the medium fluoresces a bright light-blue color when subjected to long wave UV (365-366 nm) light, is the sample marked as E. coli-positive?			
For the Colitag test, are samples incubated at 35°±0.5°C for 24±2 hours?	5.3.2.6	O	
If the medium changes to a yellow color, is the sample marked as coliform-positive?			
If the medium fluoresces under a UV light, is the sample marked as E. coli-positive?			
EC Medium + MUG (for detection of E. coli)	5.3.3	O	
If EC medium + MUG is used, is a total coliform-positive culture transferred from a presumptive tube/bottle or colony to this medium?	5.3.3.1		
Is the final pH of EC medium + MUG 6.9±0.2?	5.3.3.2		
Is the medium plus sample incubated at 44.5°±0.2°C for 24±2 hours and then tested for fluorescence?	5.3.3.4		
Enterolert test (for detection of enterococci in ground water)	5.3.4	O	
Is the medium stored in the dark at 4°-30°C until used?	5.3.4.1		
Is Enterolert reagent added to a 100-mL sample and the sample/medium incubated at 41°±0.5°C for 24-28 hours?	5.3.4.2		
Is fluorescence under a UV lamp used to indicate the presence of enterococci?			
6. SAMPLE COLLECTION, HANDLING, AND PRESERVATION			
Sample Collector			
Is the sample collector trained in aseptic sampling procedures and, if required, approved by the appropriate regulatory authority or its designated representative?	6.1	Y	
Sampling			
Are the drinking water samples collected under the Total Coliform Rule representative of the water distribution system?	6.2.1	Y	
Are the water taps used for sampling free of aerators, strainers, hose attachments, mixing type faucets, and purification devices?		Y	
Are only cold water taps used?		Y	

ELEMENT	ITEM	Y/N/O	COMMENTS
- Name of the laboratory and a signature or initials of the person(s) performing analysis		Y	
- Information concerning the analytical technique or method used		Y	
- Information concerning all items marked "QC"		Y	
- Results of the analyses		Y	
Preventive Maintenance	8.5		
Does the laboratory maintain preventive maintenance and repair records for all instruments and equipment?		Y	
Are these records kept for five years in a manner that allows for easy inspection?		Y	
9. ACTION RESPONSE TO LABORATORY RESULTS			
Testing Total Coliform-Positive Cultures	9.1		
For the Total Coliform Rule, does the laboratory test all total coliform-positive cultures for the presence of either fecal coliforms or E. coli?		Y	
Notification of Positive Results	9.2		
For Total Coliform Rule, does the laboratory promptly notify the proper authority of a positive total coliform, fecal coliform, or E. coli result, so that appropriate follow-up actions can be conducted?	9.2.1	Y	
For the Total Coliform Rule, if a sample is fecal coliform- or E. coli-positive, does the system notify the State as soon as it is notified of the test result, i.e., at the end of that day or, if the State office is closed, by the end of the next business day?	9.2.2	Y	
Does the laboratory base a total coliform-positive result on the confirmed phase of the Multiple Tube Fermentation Technique or Presence-Absence Coliform Test is used, or the verified test for the Membrane Filtration Technique if M-Endo medium or M-Endo LES agar is used?	9.2.3	O	
If a presumptive total coliform-positive culture does not confirm/verify as such, but is found to be fecal coliform or E. coli-positive, is the sample considered total coliform-positive and fecal coliform/E. coli-positive?		O	
Notification of Total Coliform Interference	9.3		
For the Total Coliform Rule, does the laboratory promptly notify the proper authority when results indicate non-coliforms may have interfered with total coliform analysis?		O	
TOTAL ITEMS REVIEWED: 148			
NUMBER OF ITEMS MEETING THE MINIMUM REQUIREMENTS: 137			
NUMBER OF ITEMS NOT IN COMPLIANCE WITH MINIMUM: 11			
LABORATORY SCORE: 93%			

ELEMENT	ITEM	Y/N/O	COMMENTS
Chain-of-Custody	6.6		
Are applicable State regulations pertaining to chain-of-custody followed by sample collectors and the laboratory?		Y	
7. QUALITY ASSURANCE			
Does the laboratory have a written QA Plan prepared and available for inspection?	7.1	Y	
Does the laboratory follow the written QA Plan?		Y	
Does the laboratory have a Standard Operating Procedure available for review pertaining to its own calibration of equipment or supplies?		Y	
Does the laboratory successfully analyze at least one set of PT samples once every 12 months for each method for which it is certified?	7.2	Y	
For methods used to test the presence or absence of an organism in a sample, does the laboratory analyze each PT sample set using a single analytical method only?		Y	
8. RECORDS AND DATA REPORTING			
Legal Defensibility	8.1		
Are compliance monitoring data being maintained by the laboratory both thorough and accurate, and thus legally defensible?		Y	
Does the laboratory's QA plan and/or SOPs describe the policies and procedures used by the facility for record retention and storage?		Y	
If samples are expected to become part of legal action, does the laboratory follow chain-of-custody procedures?		Y	
Maintenance of Records	8.2		
Does the public water system maintain records of microbiological analyses for five years?		O	
Does the laboratory maintain easily accessible records for five years or until the next certification data audit is completed, whichever is longer?		Y	
Does the laboratory notify the client water system before disposing of records so they may request copies if needed?		N	
Does the laboratory backup all electronic data by protected tape, disk, or hard copy?		O	
When the laboratory changes its computer hardware or software, are provisions in place for transferring old data to the new system so that data remain retrievable within the specified time frames?		O	
Sampling Records	8.3		
Are all data recorded in ink, with any changes lined through such that the original entry is visible?		Y	
Are changes initialed and dated?		Y	
Does the laboratory have the following sample information readily available?	8.3.1-4		
- Date and time of sample receipt by the laboratory		Y	
- Name of the laboratory person receiving the sample		Y	
- Information on any deficiency in the condition of the sample		Y	
Are samples invalidated for the following reasons?	8.3.4		
- Time between sample collection and receipt by laboratory exceeded		Y	
- Presence of disinfectant in sample noticed, e.g., odor		Y	
- Evidence of freezing		Y	
- Use of a container not approved by the laboratory for the purpose intended		Y	
- Insufficient sample volume, e.g., <100 mL		Y	
- Presence of interfering contaminants noticed, e.g., hydrocarbons, cleansers, heavy metals, etc.		Y	
- Sample temperature exceeding the maximum allowable		O	
Analytical Records	8.4		
Are all recorded data in ink with any changes lined through such that original entry is visible?		Y	
Are these changes initialed and dated?		Y	
Are the following readily available?	8.4.1-6		
- Laboratory sample identification information		Y	
- Information concerning date and time analysis begins		Y	



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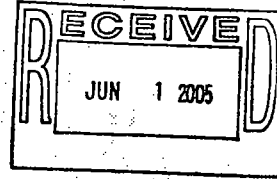
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May 26, 2005

Mr. Larry Duffield
Chemistry Certification Officer
Department of Health and Human Resources
Bureau for Public Health
Office of Laboratory Services/Environmental Chemistry Laboratory
4710 Chimney Drive, Suite G
Charleston, WV 25302

Dear Larry:

We have reviewed the on-site audit report for the survey conducted on November 16, 2005. As is required, we are responding with a Corrective Action Report (CAR).

1) Quality Assurance Plan

As required, we will update and revise our Quality Assurance Manual to include the topics discussed in the *Manual for the Certification of Laboratories Analyzing Drinking Water* (4th Edition). We will be expanding our Standard Operating Procedures to better support our Quality Assurance Plan. We will use the following outline, taken from the certification manual, in our revision:

Laboratory Organization and Responsibility

We will expand our current manual to better describe the responsibilities of the staff, including job descriptions.

Process Used to Identify Clients' Data Quality Objectives

We will take the guidelines already in use to determine our clients' needs and reference those guidelines in the QA manual.

Standard Operating Procedures

We understand that we need to completely overhaul our SOPs to include more information than sampling procedures and analytical steps. We will be using the guidelines supplied to us during the on-site audit as a guideline for our new SOPs.

Field Sampling Procedures

Although we already have written sampling instructions, we will include the "log in" process in our QA Manual

Laboratory Sample Receipt and Handling Procedures

We will expand the steps for sample receipt and handling procedures, including chain-of-custody procedures, storage, and delivery to lab.

Instrument Calibration Procedures

Although generally discussed in the current manual, the revision will reference the SOP for each analyte.

Analytical Procedures

Will be generally discussed in revised manual, the details will be referenced in the SOP for each analyte.

Data Reduction, Validation, Reporting, and Verification

Although generally discussed in the current manual, will be discussed in greater detail in the SOP for each analyte.

Types of Quality Control Checks and the Frequency of Their Use

Will be generally discussed in the current manual—including definitions of each type of quality control check. Will also be referenced in the SOP for each analyte.

List Schedules of Internal and External System and Data Quality Audits and Inter Laboratory Comparisons

This section is not in our current manual, but will be included in the revised manual. We will discuss internal data audits, as well as performance evaluation tests and external audits.

Preventative Maintenance Procedures and Manuals

This section will include copies of maintenance checklists we currently use. It will also include a schedule for external service contracts. We will also discuss the importance of preventative maintenance. Details of each instrument will be included in the SOP for the analyte ran on that instrument.

Corrective Action Contingencies

This section is discussed in the current QA manual, however, it will be discussed in greater detail in the revised manual; especially including corrective actions for performance evaluation tests.

Record Keeping Procedures

This information will be discussed in greater detail in the revised manual. This section will include where and for how long various records are kept. We will also better discuss our LIMS and how data will be kept accessible with our system.

2) Proficiency Testing

Performance tests are now logged into our LIMS, and treated just like samples. This will better help us keep up with paperwork and documentation of the testing procedure. Only the Laboratory Director and Laboratory Supervisor will be aware that the performance test samples are not actually client samples. The method for keeping track of the paperwork has already been very successful for us. All the data for our recent PT studies is organized and readily available.

3) EPA Method 200.9

We are no longer using method 200.9 and are not seeking re-certification for the method. We feel that our time would be better spent on improving our 200.8 methods, rather than spending time on a method that we have phased out.

4) EPA Method 200.8

We feel that a major issue with our deviations is the lack of very detailed SOPs. Although there are many quality control checks that we have in place, we realize that those checks need to be addressed in our Standard Operating Procedures and Quality Assurance Manuals. We are in the process of completely revising our SOPs for your approval. The revised SOPs will, at the very least, address all the sections outlined in the deviations.

We have changed several of the internal standards; only those approved by the EPA method are used.

The absence of Be or Co in the tuning solution is being reviewed. The tuning solution is provided by the instrument manufacturer (Perkin-Elmer); the tuning solution we use covers the full range of masses being measured, however, we realize we may have to alter the tuning solution to comply with the method.

PTs are now being treated exactly like samples.

A Quality Control Calibration Blank will be analyzed following the analysis of each IPC.

We now use Type I water (1% HNO₃) that has stood for at least 16 hours in a regular sample bottle as a source for our LRB and LFB.

We have a new Millipore water purification unit that produces Type I water. The unit data logs the water usage, including the resistivity.

MDLs will be done over three different days, and referenced in the SOPs.

Analysts are now initialing instrument data reports.

The IDC for precision and accuracy has been done, but not referenced in the SOP. See note on MDLs above.

5) Inorganics

On all reports, the concentrations of any standards/QC samples will be noted.

MDLs will be on three different days, and referenced in the SOPs.

IDC for precision and accuracy has been done, and will be referenced in the SOP. See note on MDLs above.

SOPs are in the process of being updated to reflect the information provided during the on-site audit.

6) Total Cyanide

At the time of the audit, Sodium Hydroxide was used as a preservative for Total Cyanide. The preservative has been modified (ascorbic acid).

The stock potassium cyanide will be standardized using silver nitrate.

We will begin using our LIMS to document the distillation of the samples.

We are now using a calibration blank for the daily calibration curve.

The LRB is now being treated like a sample.

The LFB is now being treated like a sample.

Control Limits for the LFB and LFM will be documented in the SOP, according to the EPA method.

The MDL procedure will be reviewed and revised.

The PTs are now treated exactly like a sample.

7) Nitrate and Nitrite

We will be documenting the pH of samples preserved for nitrate/nitrite.

The pH of the sample is actually adjusted during the method, but not documented. We will change this procedure to comply with the deviation.

We will be doing a column efficiency and documenting that data.

A calibration blank is now used when developing a daily calibration curve.

The LFBs and LRBs are now treated like samples.

Control Limits for the LFB and LFM will be documented in the SOP, according to the EPA method.

The PTs are now treated exactly like a sample.

8) Fluoride

The LRB/LFB is now treated exactly like sample (placed in a sample bottle).

The PTs are now treated exactly like a sample.

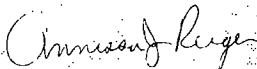
We are including a rough draft of our new SOP format.

Conclusion

We, too, would like to extend our appreciation for the helpfulness and professionalism exhibited by the auditors during the on-site survey. We understand the need to correct these deviations as soon as possible, and are, in fact, currently working to correct them. I am sure that we will be in touch during the next three months as we work towards complying with the deviations.

If you have any questions, or require additional information, please do not hesitate to contact me.

Respectfully,



Annissa J. Reiger
Laboratory Director

Fred Anderson

EnviroLabs

-----Original Message-----

From: Tom Ong [<mailto:tomong@wvdhhr.org>]

Sent: Friday, March 04, 2005 3:27 PM

To: Ex. 6 - Personal Privacy

Subject: TSB QC Form

Mr. Anderson,

Please find the attached form that we discussed on Thursday, it should be self explanatory. The following items are needed to regain certification:

1. Submit a completed copy of the attached form and include a shipping invoice for the Tryptic Soy Broth when received. If the Tryptic Soy Broth is a different lot number than previously received, the bottle sterility checks will need to be redone.
2. Change all references of Fecal Coliform to E. coli and submit copies.

**SUMMARY OF CORRECTIVE ACTIONS FOR ENVIROLABS
(Originals Are Groupwise Email)**

Tom,

Thanks for your quick response in this matter, in response to your comments, I have made the following corrections.

Item #1: We are expecting the TSB on Monday and as we discussed I will forward 24 hr results on Tuesday and 48hr results on Wednesday.

Item #2: All references to Fecal Coliforms have been changed to E. Coli as can be seen in all three attachments enclosed (Item2, Item3 and Item4).

Item #3: All COC's have been modified to add the statement "Analysis for Total Coliforms/E. Coli". This can be seen in attachment Item3.

Item #4: The issue of notifying clients before disposal of any records pertaining to micro analysis has been resolved by adding the statement, "PLEASE NOTE: All sample data will be maintained for a period of five (5) years. After that point all data will be destroyed." This can be seen in attachment Item4.

I would like to thank you and Mike for all your assistance and help. I have learned a lot in this process. If you need further information or need any additional changes please email or give me a call at (304) 422-4760.

Sincerely,

3. Add Analysis Requested to COC (i.e., Total Coliforms/E. coli) and submit a copy.

4. Address the issue of notifying clients before disposal of any records pertaining to micro analysis.

When the above items are received, an invoice will be sent for the 2005 year. Once payment is received, a certificate and parameter sheet will be issued.

A formal report will be issued next week. If you have any questions, please do not hesitate to contact me.

Thomas L. Ong, Microbiologist Supervisor

Laboratory Certification Officer

Laboratory Evaluation Officer

WVDHHR - BPH

Office of Laboratory Services

167 - 11th Avenue

South Charleston, WV 25303

Phone: 304-558-3530, Ext. 2710

email: tomong@wvdhhr.org

Tom,

Please find attached a copy of the TSB packing form. We received the TSB today and I started the tests. I have also attached your TSB form filled out to this point. I will forward an updated copy tomorrow at the 24hr point.

If you would forward the invoice we will send a check via FedEx overnight delivery.

We are expecting samples on Wednesday from all three Cities. If all goes well with the TSB and you get the check is it alright for us to go ahead and run these samples?

Thanks,
Fred

-----Original Message-----

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Sent: Friday, March 04, 2005 3:27 PM

To: Ex. 6 - Personal Privacy

Subject: TSB QC Form

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4. Address the issue of notifying clients before disposal of any records pertaining to micro analysis.

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A formal report will be issued next week. If you have any questions, please do not hesitate to contact me.

Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer
Laboratory Evaluation Officer
WVDHHR - BPH
Office of Laboratory Services
167 - 11th Avenue
South Charleston, WV 25303
Phone: 304-558-3530, Ext. 2710
email: tomong@wvdhhr.org
Tom,

Please find attached the TSB sheet you prepared with the 25hr observations. I will also forward it tomorrow with the 48hr observations.

Thanks again for all your help

Fred

-----Original Message-----

From: Tom Ong [<mailto:tomong@wvdhhr.org>]
Sent: Tuesday, March 08, 2005 2:43 PM
To: FredAnderson@asipt.com
Subject: Invoice

Attached, please find the invoice for 2005. You do not need to send the

information listed at the bottom of the invoice. Was this TSB the same lot number as before?

As soon as the fee is received, your certification will be reinstated and a certificate and parameter sheet will be forwarded. I will notify you by email of receipt of your check. If you have any questions or need further assistance, do not hesitate to contact me.

Thomas L. Ong, Microbiologist Supervisor
Laboratory Certification Officer
Laboratory Evaluation Officer
WVDHHR - BPH
Office of Laboratory Services
167 - 11th Avenue
South Charleston, WV 25303
Phone: 304-558-3530, Ext. 2710
email: tomong@wvdhhr.org

Tom,

As promised, please find attached the TSB sheet you prepared with the 48hr observations.

Thanks again for all your help

Fred



State Of West Virginia

Department of Health and Human Resources
Bureau For Public Health

Office of Laboratory Services

Certifies That
EnviroLab, Inc.

6331 Emerson Avenue
Parkersburg, WV 26104

having duly met the requirements of the
Certification of Laboratories to Conducts Drinking Water Test
(64CSR 3-13)

is hereby approved as a
State Certified Drinking Water Laboratory

To perform the analyses indicated on the
Certified Parameter List
which must accompany this certificate

00542M

Certificate Number

March 09, 2005

Date of Issue

Laboratory Director

Certification Officer(s)

Certificate Expires on **December 31, 2005**



West Virginia Department of Health and Human Resources

Bureau For Public Health Office of Laboratory Services

*This is to certify that the following laboratory has been approved to
perform the indicated procedures on drinking water in accordance with
West Virginia 64CSR 3-13:*

EnviroLab, Inc
00542 M
6331 Emerson Avenue
Parkersburg, WV 26104

Issue Date: 3/9/2005 LabDirector: Fred Anderson Expiration Date: 12/31/2005

Group: *Microbiology*

Total Coliforms	SM9223B	Certified	Colilert
Fecal Coliforms/E. Coli	SM9223B	Certified	Colilert



State Of West Virginia

Department of Health and Human Resources
Bureau For Public Health

Office of Laboratory Services

Certifies That

Analabs, Inc.

**196 Dayton Street
Crab Orchard, WV 25827**

*having duly met the requirements of the
Certification of Laboratories to Conduct Drinking Water Tests
(64C SR 3.13)*

is hereby approved as a

State Certified Drinking Water Laboratory

*To perform the analyses indicated on the
Certified Parameter List
which must accompany this certificate*

00442 CM

Certificate Number

January 01, 2005

Date of Issue

Andrew M. DeLoe, M.D.
Laboratory Director
James J. Wofford, Jr.
Certification Officer(s)

Certificate Expires on **December 31, 2005**



West Virginia Department of Health and Human Resources

**Bureau For Public Health
Office of Laboratory Services**

*This is to certify that the following laboratory has been approved to
perform the indicated procedures on drinking water in accordance with
West Virginia 64CSR 3-13:*

Analabs, Inc.
00442 CM
196 Dayton Street
Crab Orchard, WV 25827

Issue Date: 5/30/2005 **Lab Director:** Annissa Reigar **Expiration Date:** 12/31/2005

Group: Microbiology

Total Coliforms	SM9223B	Certified	Colilert
Fecal Coliforms/E. Coll	SM9223B	Certified	Colilert
Heterotrophic Bacteria	SM9215B	Certified	HPC - Pour Plate Method

Group: Trace Metals Group I

Copper	200.8, 200.9	Provisional
Lead	200.8, 200.9	Provisional

Group: Trace Metals Group II

Antimony	200.8, 200.9	Provisional
Arsenic	200.8, 200.9	Provisional
Barium	200.8	Provisional
Beryllium	200.8, 200.9	Provisional
Cadmium	200.8, 200.9	Provisional
Chromium	200.8, 200.9	Provisional
Mercury	200.8	Provisional
Selenium	200.8, 200.9	Provisional
Thallium	200.8, 200.9	Provisional

Group: Inorganics Group I

Nitrate-N	353.2	Provisional
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Tuesday, May 31, 2005

Page 1 of 2

Analabs, Inc.
00442 CM
196 Dayton Street
Crab Orchard, WV 25827

Issue Date: 5/30/2005 **Lab Director:** Annissa Reiger **Expiration Date:** 12/31/2005

Group:	<i>Inorganics Group II</i>	
Nitrite-N	353.2	Provisional
Group:	<i>Inorganics Group III</i>	
Fluoride	SM4500F-C	Provisional
Group:	<i>Inorganics Group V</i>	
Cyanide, Total	335.4	Provisional

From: Dan Hill
To: Larry Duffield
Date: 7/1/2005 3:01:03 PM
Subject: Re: Rad Chemistry Lab Certification

Larry,
We tell the labs which apply for recognition for radiochemistry that we will forward the names to OLS for recommended company listings for various tests that are required. The OEHS recognition of any out-of-state lab is based on another state's lab certification, since West Virginia does not have any radiochemistry lab that I know of, and we cannot perform sample analysis or proficiency testing. Please see attached list. 2 of 3 have expired without application for renewal. You might check with DEP for a current list of EPA certified labs for soil groundwater analysis.

Dan

Dan Hill, Chief
Radiological Health Program
DHHR Bureau for Public Health, OEHS
Capitol and Washington Streets
1 Davis Square, Suite 200
Charleston, WV 25301-1798
304-558-6772
304-558-0524 FAX

http://www.wvdhhr.org/rtia/radiological_health.asp

"Always do right. This will gratify some people and astonish the rest."
{Mark Twain}

>>> Larry Duffield 7/1/2005 11:53:58 AM >>>
Hi Dan,

EPA Region 3 has sent me their annual questionnaire regarding laboratory certification and I have to submit the information by July 13th. Question #5 asks:

*"Provide a listing of all Rad Chemistry laboratories your State certifies and the date of the last on-site inspection and the projected date for the next on-site inspection. **Include the total number of these labs (# in-State, # Out-of-State).***

Last year we just stated that we (Environmental Chemistry) were not responsible for Rad Labs and I directed them to your office. Did you communicate with them and provide this information?
If you want or can provide this info to me I will include it in our report. Otherwise, I will just direct them to your office like we've been doing.
Thanks.

Larry A. Duffield
Program Manager I
Chief Certification Officer, Chemistry
WVDHHR-Office of Laboratory Services
Environmental Chemistry Section
4710 Chimney Drive, Suite G
Charleston, WV 25302
Phone: (304) 965-2694 X 2222
FAX: (304) 965-2696
E-Mail: larryduffield@wvdhhr.org

CC: Andrea Labik; Barb Taylor; Bob Hart; CCATHER@wvdep.org;
Charles Robinette; Charlotte Billingsley; Gregory Young; Randy Curtis; Tom
Ong; Walter Ivey